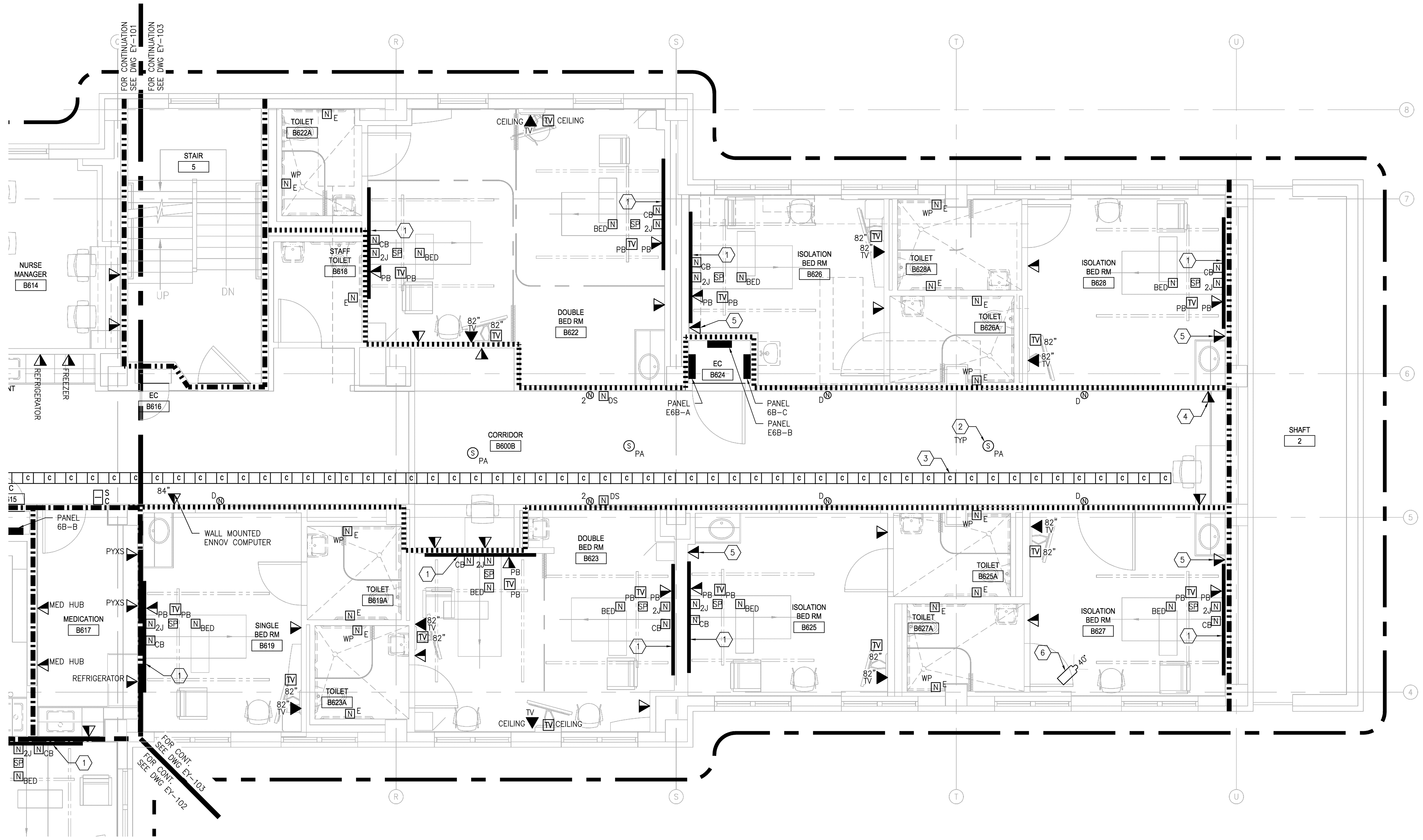
PLAN NORTH ACTUAL NORTH

GENERAL SHEET NOTES:

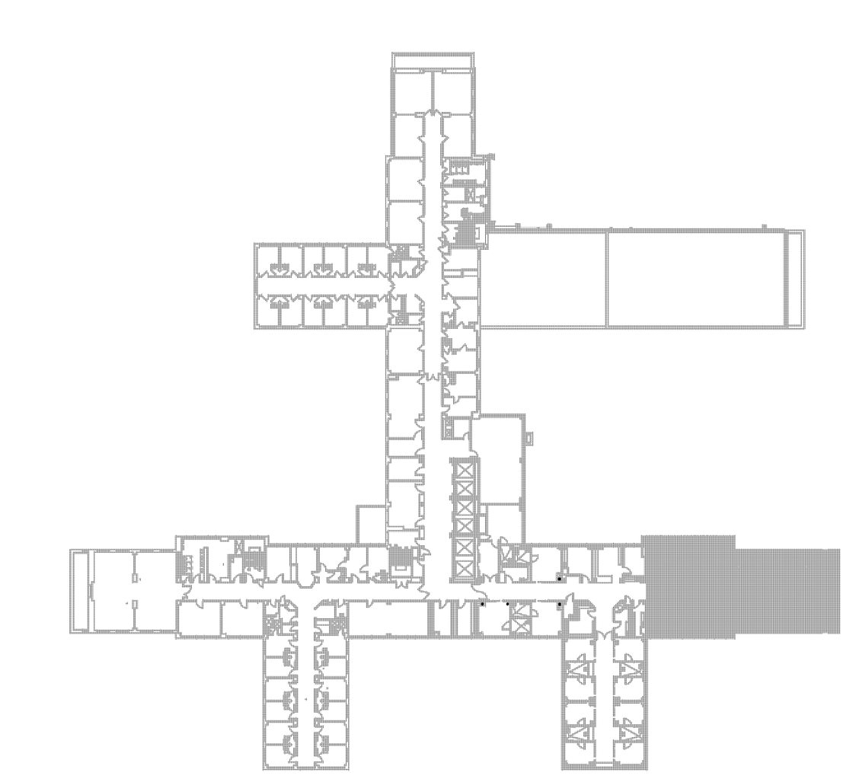
1. SEE DRAWING E-001 AND E-002 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.

SHEET KEYNOTES:

1. BEDSIDE PATIENT UNIT (BPU). SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF DEVICES.
2. FINAL CONNECTIONS FOR THE PA SYSTEM WIRING TO BE TIED INTO EXISTING DISTRIBUTION EQUIPMENT LOCATED IN SHAFT #5. REFER TO EP-503.
3. BASKET TYPE CABLE TRAY, 4"Hx12"W. PRIOR TO ROUGH-IN, COORDINATE INSTALLATION WITH OTHER TRADES.
4. TYPICAL VOICE/DATA OUTLET. REFER TO DETAIL 5 ON DRAWING EP-501 FOR WIRING AND CONFIGURATION.
5. HEADWALL MOUNTED COMPUTER. SEE DETAIL 1F/AS-204 FOR LOCATION.
6. CAMERA. COAX TO VIDEO MONITOR IN NURSES STATION B612.



1 6TH FLOOR – SYSTEMS PLAN
SCALE: 1/4" = 1'-0"



KEY PLAN
SCALE: NONE

BID DOCUMENTS
FULLY SPRINKLERED

Revisions	Date

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QPK Job Number: 213247.00

MILLER-REMICK LLC
PROFESSIONAL ENGINEER
STATE OF NEW YORK — MATTHEW T. COFONE — 085675-1 — LICENSED PROFESSIONAL ENGINEER

Reviewed: Facility Manager
Reviewed: Facility Director
Reviewed:
Reviewed:

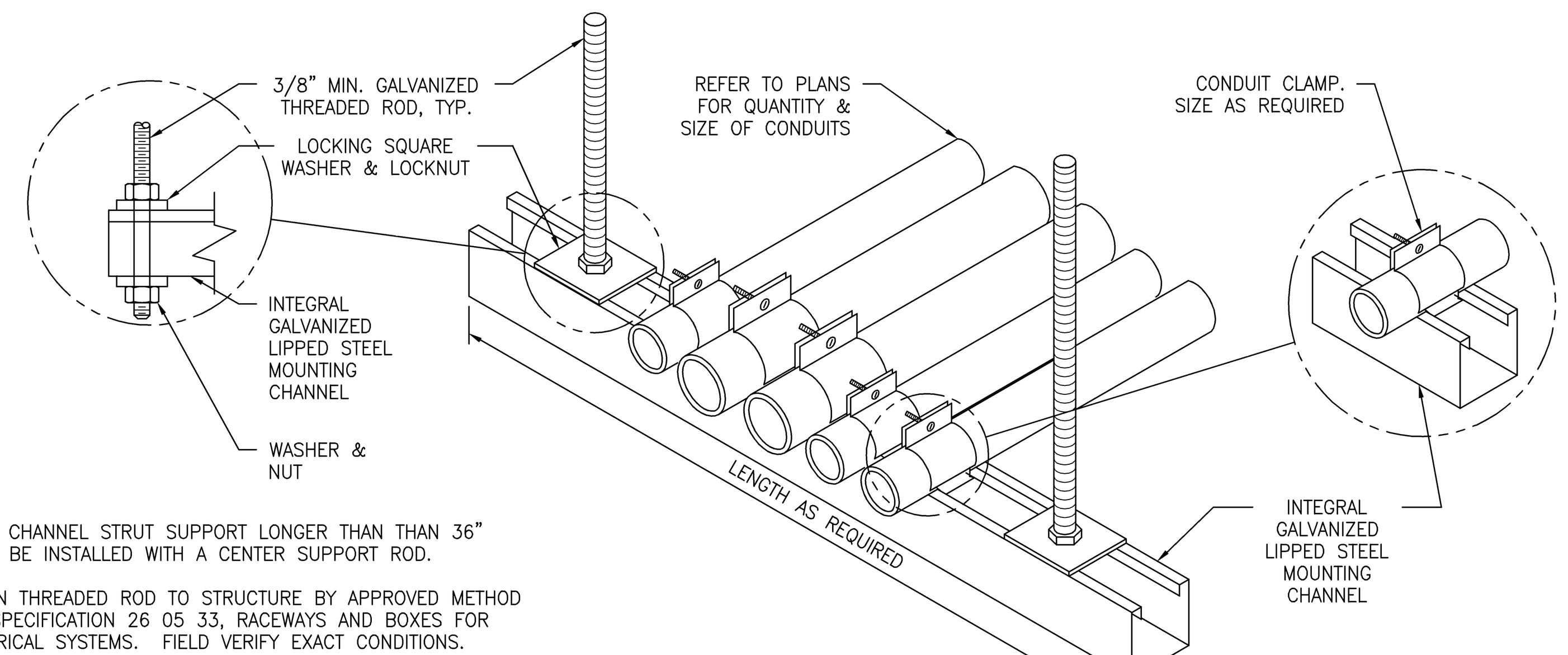
Drawing Title: ELECTRICAL 6TH FLOOR - SYSTEMS PLAN PART C
Approved: Project Director
Project Title: RENOVATION FOR 6B WARD
Building Number: NO. 1
Checked: BEAVER
Drawn: READ
Location: VAMC SYRACUSE, NY
Date: 10-15-2014
Project No.: 528A7-13-745
DRAWING NO.: EY-103
Dwg. 71 Of 81

VA HEALTHCARE NETWORK UPSTATE NEW YORK
Department of Veterans Affairs

VA FORM 08-6231

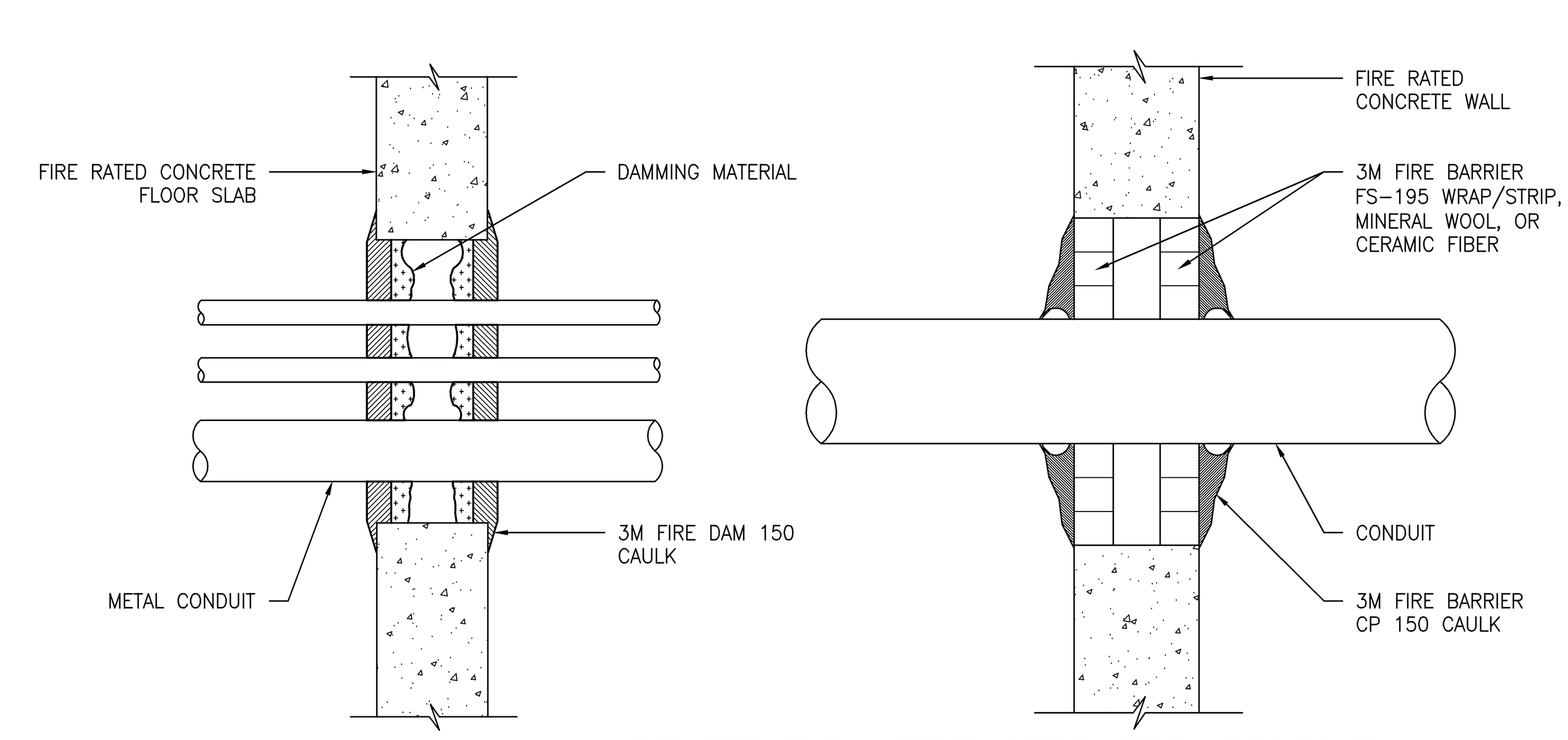
GENERAL SHEET NOTES:

1. SEE DRAWING E-001 AND E-002 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.



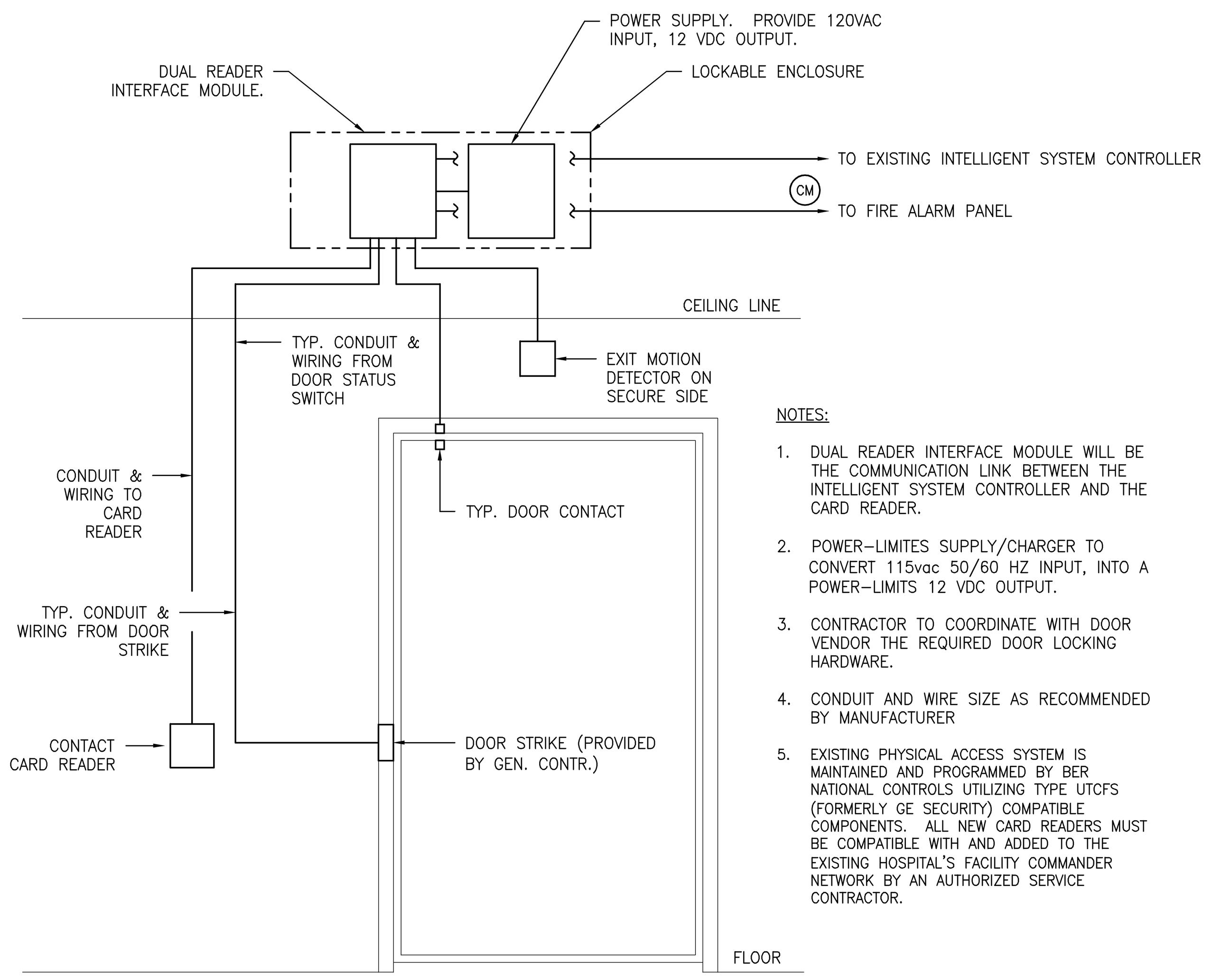
NOTES
1. METAL CHANNEL STRUT SUPPORT LONGER THAN THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 05 33, RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
3. FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS REFER TO SPECIFICATION SECTION 13 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

1 CONDUIT TRAPEZE MOUNTING DETAIL
SCALE: NONE



2 PENETRATION FIRE STOP FOR CONDUIT THROUGH CONCRETE
SCALE: NONE

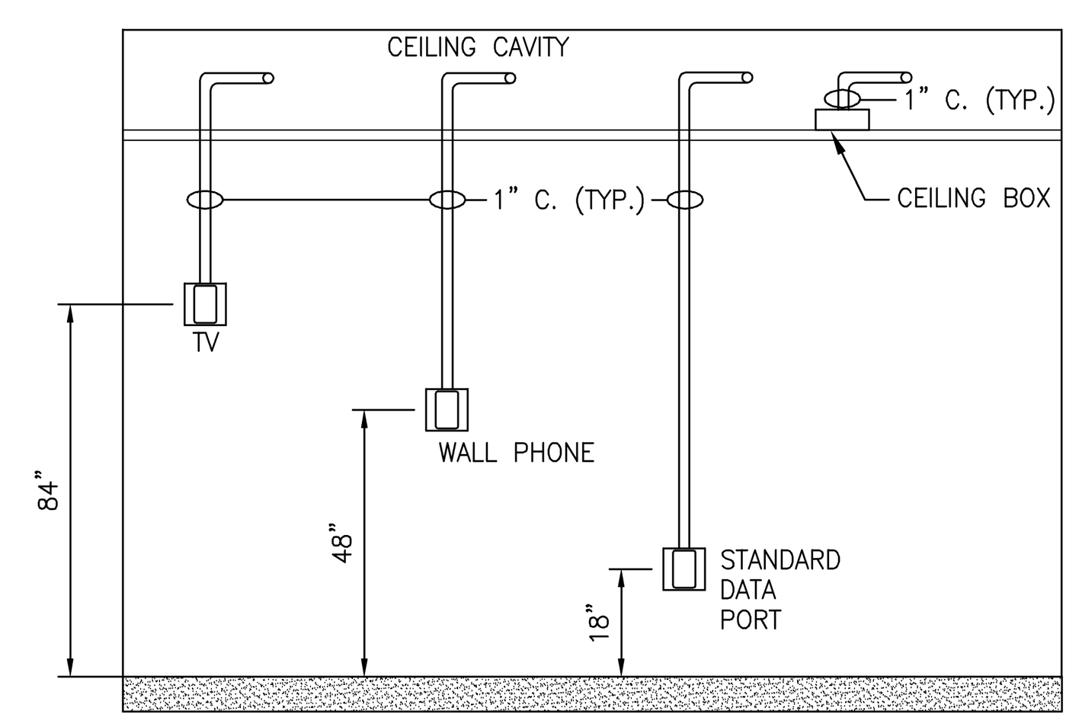
NOTES:
1. A 1" MIN. THICKNESS OF 3M FIRE DAM 150 CAULK IS TO BE INSTALLED AROUND THE CONDUIT ON BOTH SIDES OF THE WALL. AN ADDITIONAL 1/4" BEAD SHALL BE PLACED AROUND THE PERIMETER OF THE OPENING OVERLAPPING THE WALL 1/4" MIN.
2. A 1-1/2" MIN. THICKNESS OF MINERAL WOOL DAMMING OR CERAMIC FIBER INSULATION IS REQUIRED IN THE PENETRATION AROUND THE CONDUIT & RECESSED 2" MIN. FROM EACH SIDE OF THE WALL.
3. A 1" MIN. CLEARANCE IS REQUIRED BETWEEN ADJACENT CONDUIT & THE PERIMETER THROUGH THE OPENING.
4. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST & UL THROUGH-PENETRATION FIRE STOP SYSTEM #170.



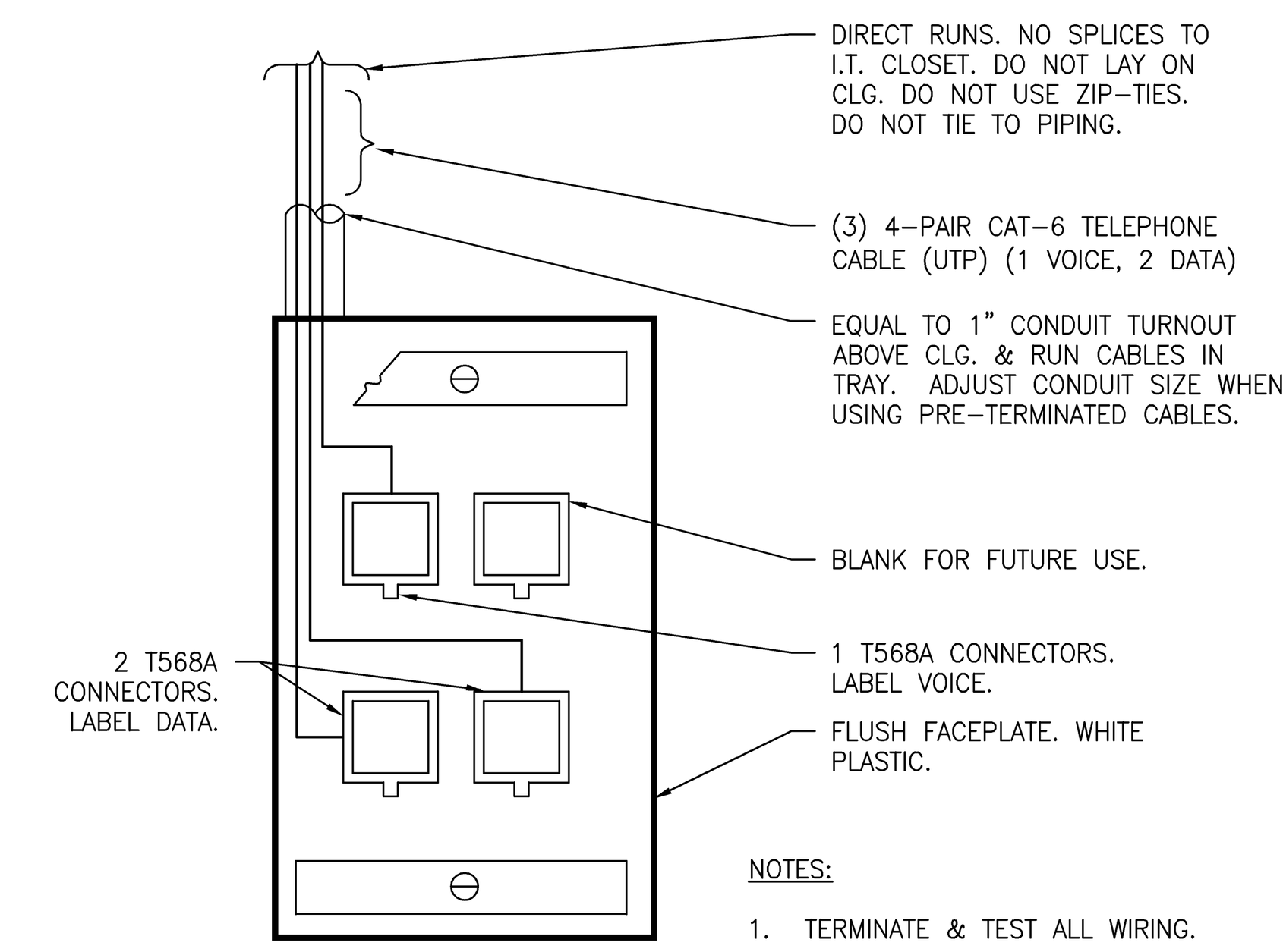
NOTES:
1. DUAL READER INTERFACE MODULE WILL BE THE COMMUNICATION LINK BETWEEN THE INTELLIGENT SYSTEM CONTROLLER AND THE CARD READER.
2. POWER-LIMITES SUPPLY/CHARGER TO CONVERT 115vac 50/60 HZ INPUT, INTO A POWER-LIMITS 12 VDC OUTPUT.
3. CONTRACTOR TO COORDINATE WITH DOOR VENDOR THE REQUIRED DOOR LOCKING HARDWARE.
4. CONDUIT AND WIRE SIZE AS RECOMMENDED BY MANUFACTURER
5. EXISTING PHYSICAL ACCESS SYSTEM IS MAINTAINED AND PROGRAMMED BY BER NATIONAL CONTROLS UTILIZING TYPE UTCFS (FORMERLY GE SECURITY) COMPATIBLE COMPONENTS. ALL NEW CARD READERS MUST BE COMPATIBLE WITH AND ADDED TO THE EXISTING HOSPITAL'S FACILITY COMMANDER NETWORK BY AN AUTHORIZED SERVICE CONTRACTOR.

3 DOOR DETAIL B604C (IT DATA RM), B617 (MEDICATION), B637 (CLEAN HOLDING RM), B636 (SOILED UTILITY RM)
SCALE: NONE

STATION CONDUIT NOTES:
1. ALL BOXES SHALL BE DOUBLE GANG WITH REDUCING MUD-RING FOR MOUNTING OF SINGLE GANG FACEPLATE.
2. ALL CONDUIT AND BOXES TO BE INSTALLED WITHIN SHEETROCK OR BLOCK WALLS. NO SURFACE MOUNTING OF CONDUIT.
3. COORDINATE TV MONITOR MOUNTING HEIGHTS WITH COR.
4. ALL CONDUITS SHALL TERMINATE IN AN ACCESSIBLE CEILING. FURNISH WITH BUSHED ENDS.



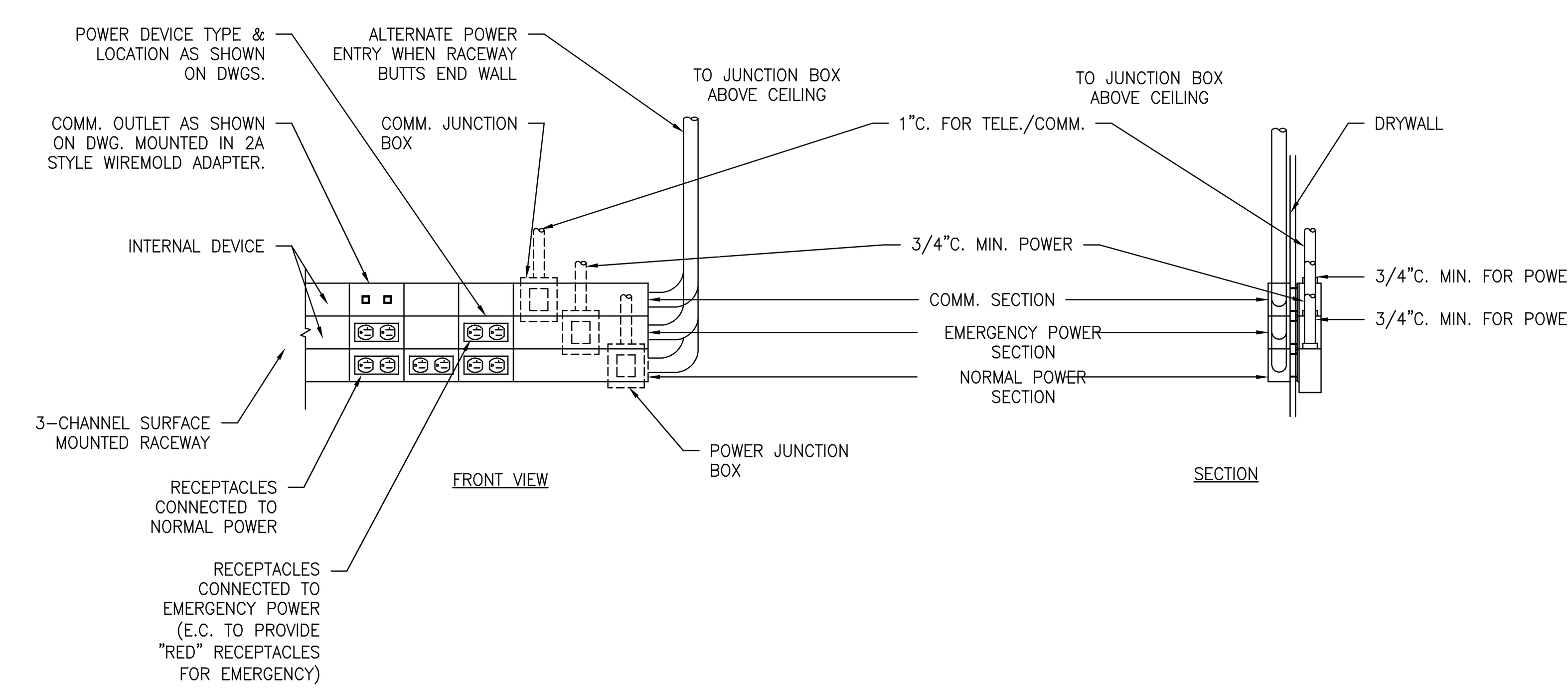
4 TYPICAL TELE/DATA DROP DETAIL
SCALE: NONE



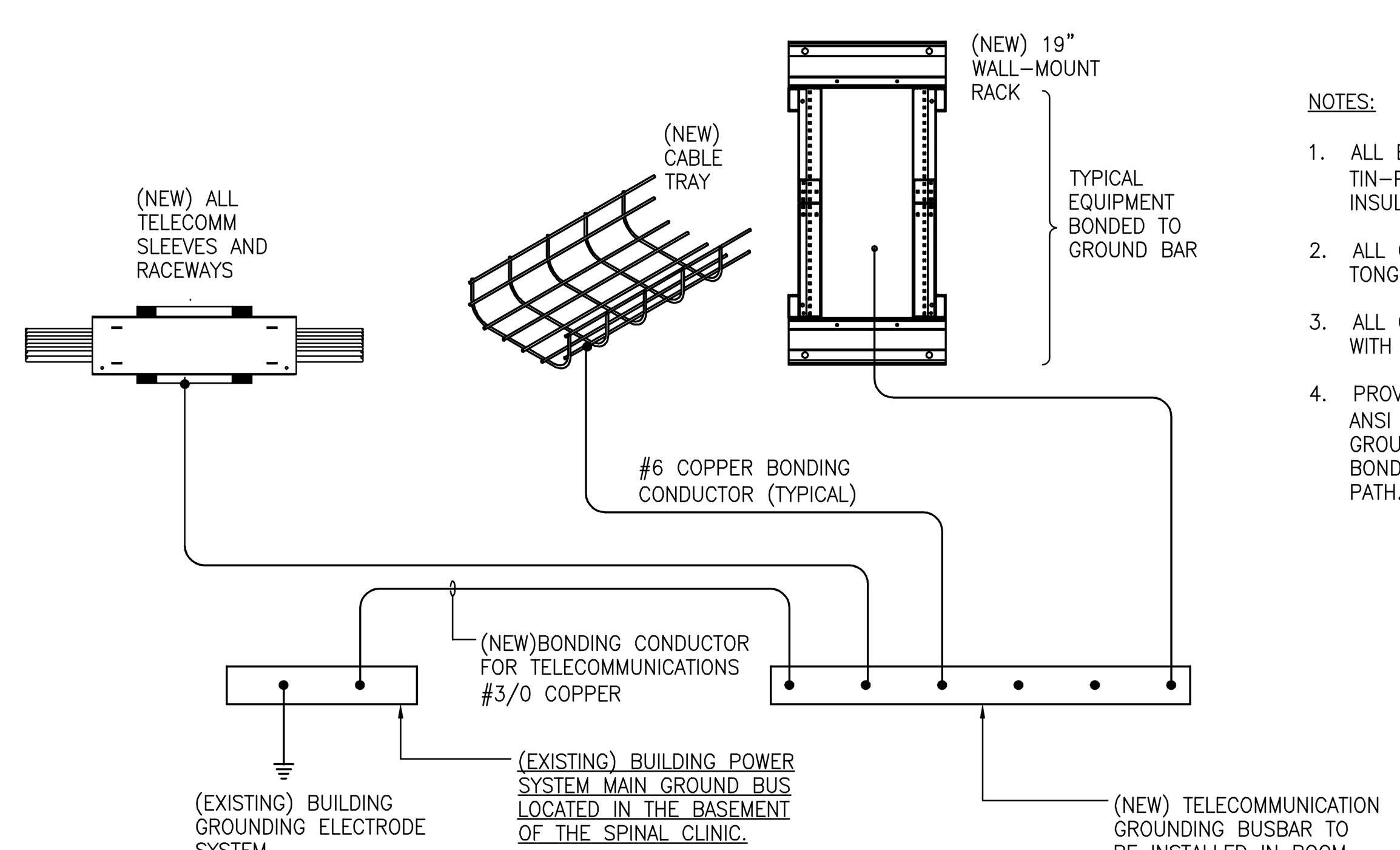
NOTES:
1. TERMINATE & TEST ALL WIRING.

5 TYPICAL TELE/DATA OUTLET DETAIL
SCALE: NONE

NOTES:
1. FOR DATA AT TV LOCATIONS (SHOWN WITH A DATA SYMBOL AND SUBSCRIPT TV) ONLY ONE DATA PORT IS REQUIRED.



6 THREE CHANNEL SECTION RACEWAY
SCALE: NONE



NOTES:
1. ALL BUSBARS SHALL BE 1/4" X 4" X 24" PRE-DRILLED TIN-PLATED COPPER. MOUNT ON WALL WITH 2" STANDOFF INSULATORS.
2. ALL CABLE CONNECTIONS TO GROUND BAR SHALL BE TWO HOLE TONGUE COMPRESSION LUGS.
3. ALL GROUNDING CONDUCTORS SHALL BE COPPER CONDUCTORS WITH GREEN INSULATION OR DISTINCTIVE GREEN MARKING.
4. PROVIDE ELECTRICAL GROUND CONNECTION IN CABLE TRAY PER ANSI J-STD 607 REQUIREMENTS. PROVIDE MINIMUM #6 AWG GROUND CONDUCTOR AND APPROVED GROUNDING HARDWARE TO BOND CABLE TRAY SEGMENTS TO FORM A CONTINUOUS GROUNDING PATH. GROUND TO CLOSEST EXISTING ELECTRICAL GROUND.

7 TELECOMM AND DATA GROUNDING DIAGRAM
SCALE: NONE

BID DOCUMENTS
FULLY SPRINKLERED

Revisions	Date

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STATE OF NEW YORK · MATTHEW T. COFONE · 085675-1 · LICENSED PROFESSIONAL ENGINEER

Reviewed: Facility Manager
Reviewed: Facility Director
Reviewed:
Reviewed:

Drawing Title: ELECTRICAL DETAILS
Approved: Project Director
Project Title: RENOVATION FOR 6B WARD
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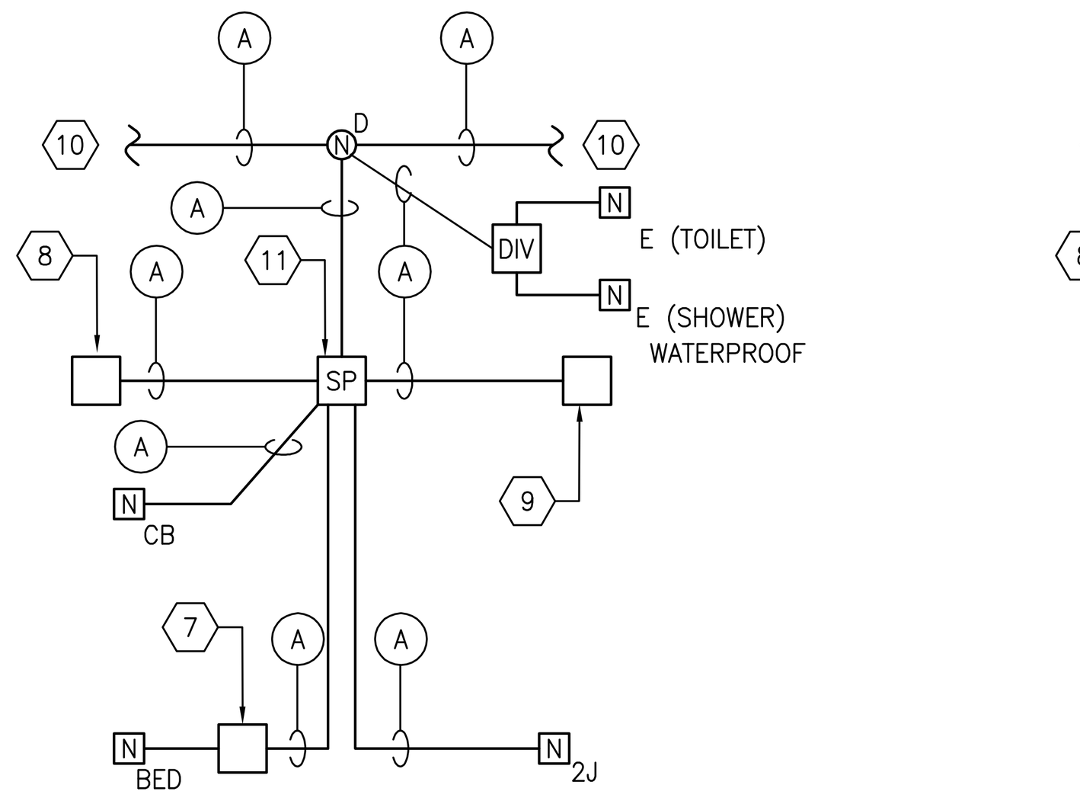
DRAWING NO.: EP-501
Dwg. 72 Of 81

VA HEALTHCARE NETWORK UPSTATE NEW YORK
Department of Veterans Affairs

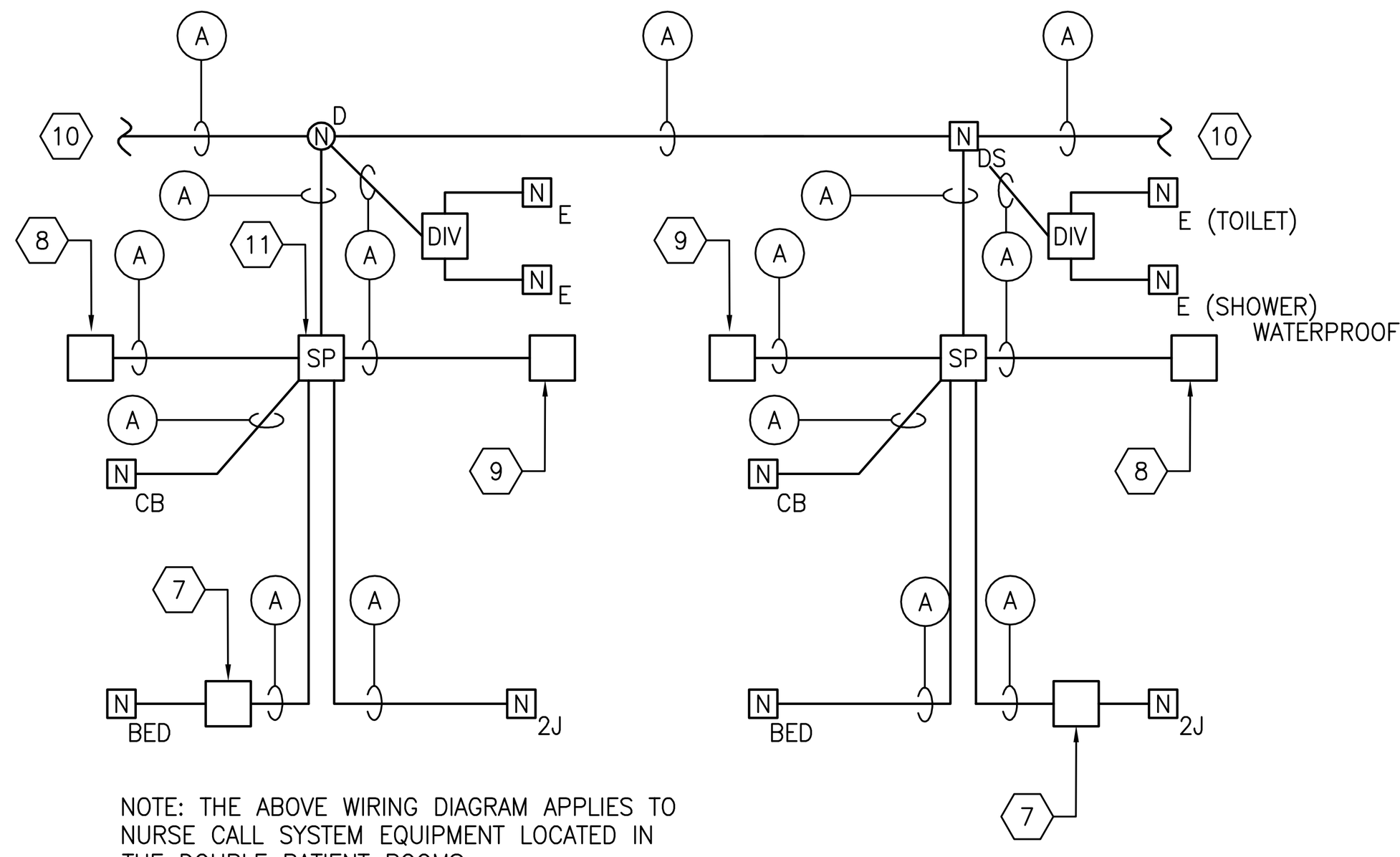
VA FORM 08-6231

P:\0499_DVA\3-0499-0046 Syracuse 6B Patient Ward\2_Drawings\1_Cad\1_Current Submittal Phase\7_Electrical\EP-501.dwg 10-15-14 02:26:02 PM vrizzo



NOTE: THE ABOVE WIRING DIAGRAM APPLIES TO NURSE CALL SYSTEM EQUIPMENT LOCATED IN THE SINGLE PATIENT ROOMS.

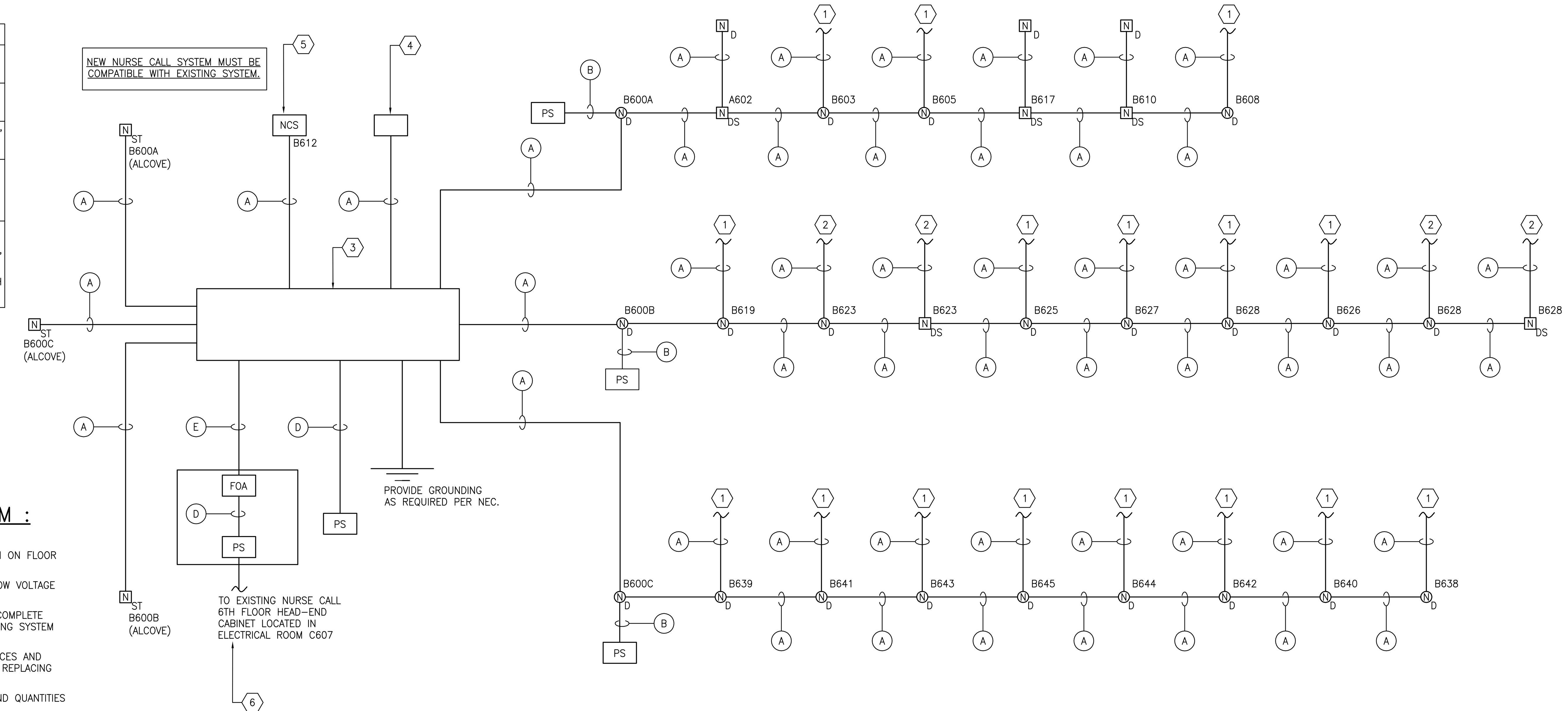
1 TYPICAL SINGLE PATIENT ROOM NURSE CALL SYSTEM WIRING DIAGRAM
SCALE: NONE



NOTE: THE ABOVE WIRING DIAGRAM APPLIES TO NURSE CALL SYSTEM EQUIPMENT LOCATED IN THE DOUBLE PATIENT ROOMS.

2 TYPICAL DOUBLE PATIENT ROOM NURSE CALL SYSTEM WIRING DIAGRAM
SCALE: NONE

CABLE SCHEDULE	
A	PROVIDE & INSTALL: CATEGORY 6 CABLING IN 3/4" CONDUIT.
B	PROVIDE & INSTALL: 2- #12-#16 AWG IN 3/4" CONDUIT.
C	PROVIDE & INSTALL: 2- #12 AWG IN 3/4" CONDUIT.
D	PROVIDE & INSTALL: 3- #12-#16 AWG IN 3/4" CONDUIT. (WIRE SIZE VARIES BASED ON CONDUCTOR LENGTH. COORDINATE SIZE WITH NURSE CALL MANUFACTURER).
E	PROVIDE & INSTALL: MULTIMODE OPTICAL FIBER, STRANDED 12 PAIR TERMINATED, 62.5/125, SC ENDS AND CERTIFIED IN 1" CONDUIT. (COORDINATE FIBER OPTIC CABLING AND CONDUIT REQUIREMENTS WITH NURSE CALL MANUFACTURER).



3 NURSE CALL SYSTEM WIRING DIAGRAM
SCALE: NONE

SYMBOL	DESCRIPTION
SP	ENHANCED SINGLE PATIENT BED STATION (WITHOUT CODE BLUE)
N E	PULL CORD STATION WITH AUDIO
N 2J	NON-AUDIO UNIVERSAL INTERFACE MODULE (2-JACK STATION)
N BED	37-PIN FEATURE BED RECEPTACLE
N D (circled)	CORRIDOR LIGHT - 4 POSITION TO BE MOUNTED ABOVE THE DOOR FRAME.
N D	DUTY STATION
N CB	CODE BLUE STANDALONE STATION
NCS	DUTY STATION
N ST	STAFF TERMINAL
N DS	DOMELESS CORRIDOR CONTROLLER W/ AUDIO TO BE MOUNTED ABOVE THE DOOR FRAME.
PS	POWER SUPPLY WITH BATTERY BACKUP
FOA	FIBER OPTIC ADAPTER MODULE
DIV	STAFF ASSIST STATION

KEYNOTES FOR NURSE CALL SYSTEM WIRING DIAGRAM AND TYPICAL PATIENT ROOM NURSE CALL SYSTEM WIRING DIAGRAMS (SINGLE AND DOUBLE) DETAILS 1, 2 AND 3 EP-502:

1. TO NURSE CALL SYSTEM EQUIPMENT LOCATED IN SINGLE PATIENT ROOM, ISOLATION ROOMS AND BARIATRIC BEDROOMS. REFER TO TYPICAL SINGLE PATIENT ROOM NURSE CALL SYSTEM WIRING DIAGRAM 1/EP-502 FOR ADDITIONAL INFORMATION.
2. TO NURSE CALL SYSTEM EQUIPMENT LOCATED IN DOUBLE PATIENT ROOMS. REFER TO TYPICAL DOUBLE PATIENT ROOM NURSE CALL SYSTEM WIRING DIAGRAM 2/EP-502 FOR ADDITIONAL INFORMATION.
3. PROVIDE NURSE CALL HEAD-END CABINET. PROVIDE POWER SUPPLIES, FIBER OPTIC ADAPTER, AND BRANCH REGIONAL CONTROLLER AS REQUIRED. NURSE CALL HEAD-END CABINET WILL BE LOCATED IN ROOM ELECTRICAL CLOSET B616.

   NURSE CALL HEAD-END CABINET WILL BE TIED INTO EXISTING NETWORK SERVER LOCATED IN ELECTRICAL ROOM C607.
4. PROVIDE PC CONSOLE IN NURSE MANAGER ROOM B614. PC CONSOLE AND SOFTWARE FOR COMMUNICATION BETWEEN EXISTING NURSE CALL SYSTEM AND NEW NURSE CALL SYSTEM PROVIDED UNDER THIS CONTRACT.
5. PROVIDE RECEPTACLE FOR VOIP NURSE CONSOLE AS REQUIRED. COORDINATE RECEPTACLE MOUNTING LOCATION WITH ARCHITECT.
6. PROVIDE FIBER OPTIC CONNECTION BETWEEN EXISTING NURSE CALL 6TH FLOOR SERVER LOCATED IN THE ELECTRICAL ROOM C607 AND NEW HEAD-END CABINET DEDICATED TO 6B UNIT LOCATED IN ROOM B606A. PROVIDE POWER SUPPLY AND FIBER OPTIC ADAPTER AS REQUIRED.
7. PROVIDE FEATURE BED CONTROL MODULE AT PATIENT BED.
8. PROVIDE STANDARD PILLOW SPEAKER FOR ENHANCED SINGLE PATIENT STATION.

   ENHANCED PILLOW SPEAKER WITH TWO LIGHTS REFERENCE NUMBER 4C410U-101031A RAULAND OR SIMILAR. PILLOW SPEAKER MUST BE COMPATIBLE WITH DIGITAL TV SYSTEM. TO ACCES ANY DIGITAL CHANNEL SUCH AS 11.1, THE PILLOW SPEAKER SHOULD HAVE THE "GUIDE" BUTTOM TO BE USED AS THE DOT.
9. PROVIDE LOW VOLTAGE LIGHTING CONTROLLER FOR TYPE "A1" LIGHT FIXTURE. REFER TO LOW-VOLTAGE LIGHTING CONTROLLER WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
10. TO NURSE CALL CORRIDOR LIGHT. REFER TO NURSE CALL SYSTEM WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
11. PROVIDE EARTH GROUNDING FOR ENHANCED SINGLE PATIENT STATION BACK BOX PER NURSE CALL SYSTEM MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES NURSE CALL SYSTEM :

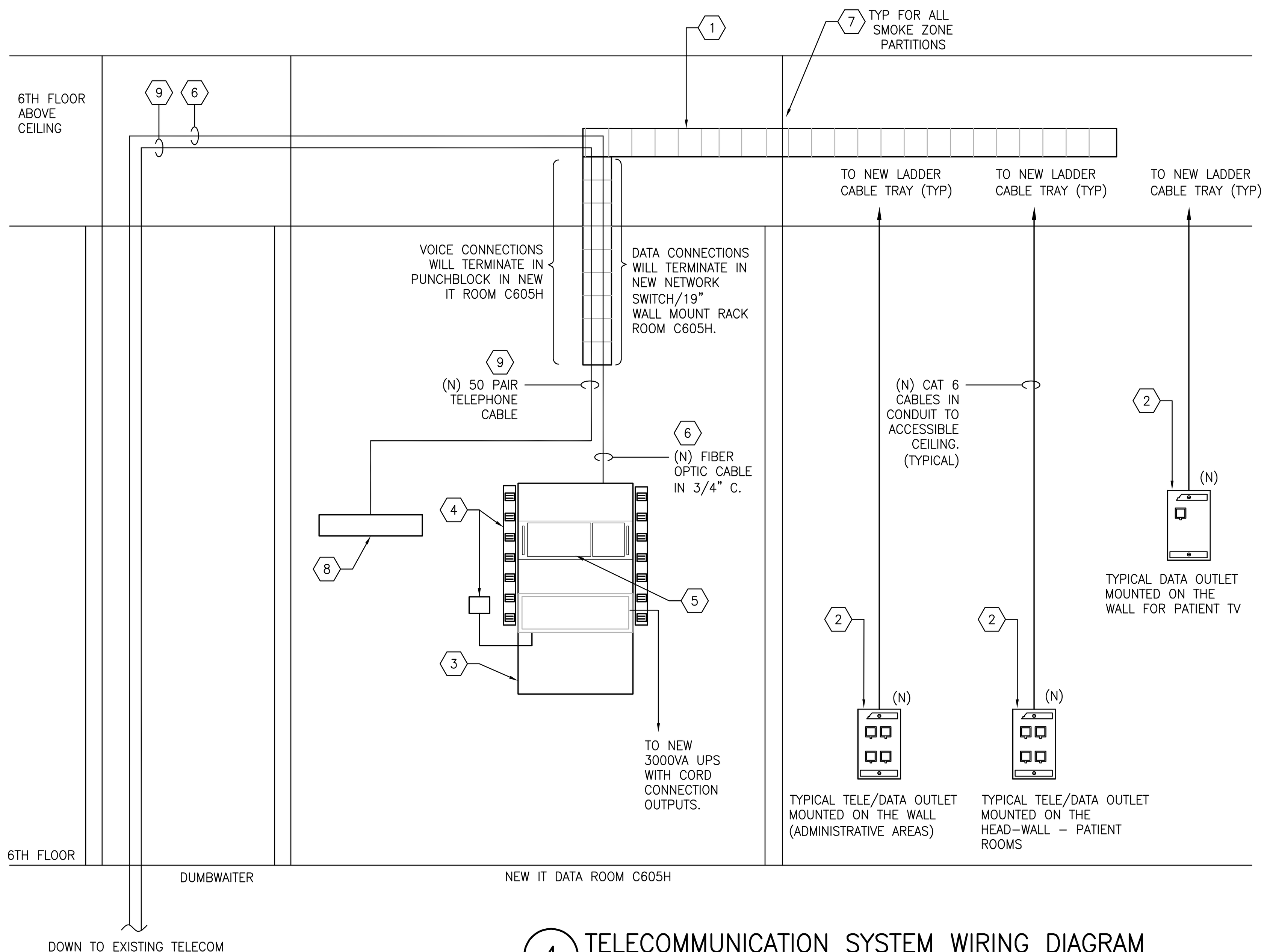
1. PROVIDE AND INSTALL NURSE CALL SYSTEM EQUIPMENT WHERE SHOWN ON FLOOR PLANS AND DIAGRAMS.
2. PROVIDE AND INSTALL FIBER OPTIC CABLING, CATEGORY 6 CABLING, LOW VOLTAGE POWER CONDUCTORS AND RACEWAYS AS INDICATED.
3. PROVIDE AND INSTALL BACK BOXES, RACEWAYS, WIRING, ETC. FOR A COMPLETE NURSE CALL SYSTEM, NECESSARY TO PROVIDE A PROPERLY FUNCTIONING SYSTEM WHETHER OR NOT LISTED ON DRAWINGS AND SPECIFICATIONS.
4. FOLLOWING COMPLETION OF WORK, CONTRACTOR SHALL TEST ALL DEVICES AND CABLING FOR PROPER OPERATION. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY IMPROPERLY FUNCTIONING DEVICE AND CABLING.
5. CONTRACTOR MUST VERIFY AND COORDINATE EQUIPMENT LOCATIONS AND QUANTITIES WITH CONTRACT DOCUMENTS INCLUDING FLOOR PLANS AND DETAILS.
6. NURSE CALL SYSTEM EQUIPMENT AND ASSOCIATED CABLING SHALL BE INSTALLED PER EQUIPMENT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
7. PROVIDE SPARE PARTS FOR NURSE CALL SYSTEM PER SPECIFICATION SECTION 275223.
8. PROVIDE AND INSTALL EXTRA-LONG PULL CORDS FOR UNITS INSTALLED IN PATIENT TOILET ROOM SHOWER AREAS.

GENERAL NOTES FOR CODE BLUE SYSTEM :

1. CODE BLUE STATION RAULAND R4KCB13 OR APPROVED EQUAL. STATION MUST BE COMPATIBLE WITH EXISTING RAULAND SYSTEM.
2. NEW CODE BLUE STATIONS SHOULD BE CONNECTED TO EXISTING RAULAND NETWORK SWITCH LOCATED IN THE ELECTRICAL ROOM C607.
   THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL, LABOR, EQUIPMENT, AND ASSOCIATED COSTS REQUIRED TO CONNECT ALL NEW CODE BLUE STATIONS INTO THE EXISTING SYSTEM, INCLUDING BUT NOT LIMITED TO INTERFACE MODULES, POWER SUPPLIES, DATA CABLING ETC.

KEYNOTES FOR WANDER SYSTEM WIRING DIAGRAM

1. WANDER ALERT (WA) PANEL PROVIDED BY SECURE CARE. E.C. MUST RETAIN THE SERVICE OF THE PRIMARY VA ASSIGNED VENDOR, SECURE CARE, FOR ALL WANDER ALERT SYSTEM DEVICES AND ANY OTHER EQUIPMENT/SOFTWARE NEEDED TO KEEP THE WANDER SYSTEM IN OPERATION. APPROVED SYSTEM SHALL OPERATE WITH 40 Mhz BRACELETS. ACP SHOULD HAVE THE REQUIRED DRY CONTACT OUTPUTS TO INTERFACE WITH NURSE CALL OR SOUNDERS AS REQUIRED BY VA.
2. POWER-LIMITED SUPPLY/CHARGER TO CONVERT 115vac,50/60 HZ INPUT, INTO A POWER-LIMITED 9 VDC OUTPUT.

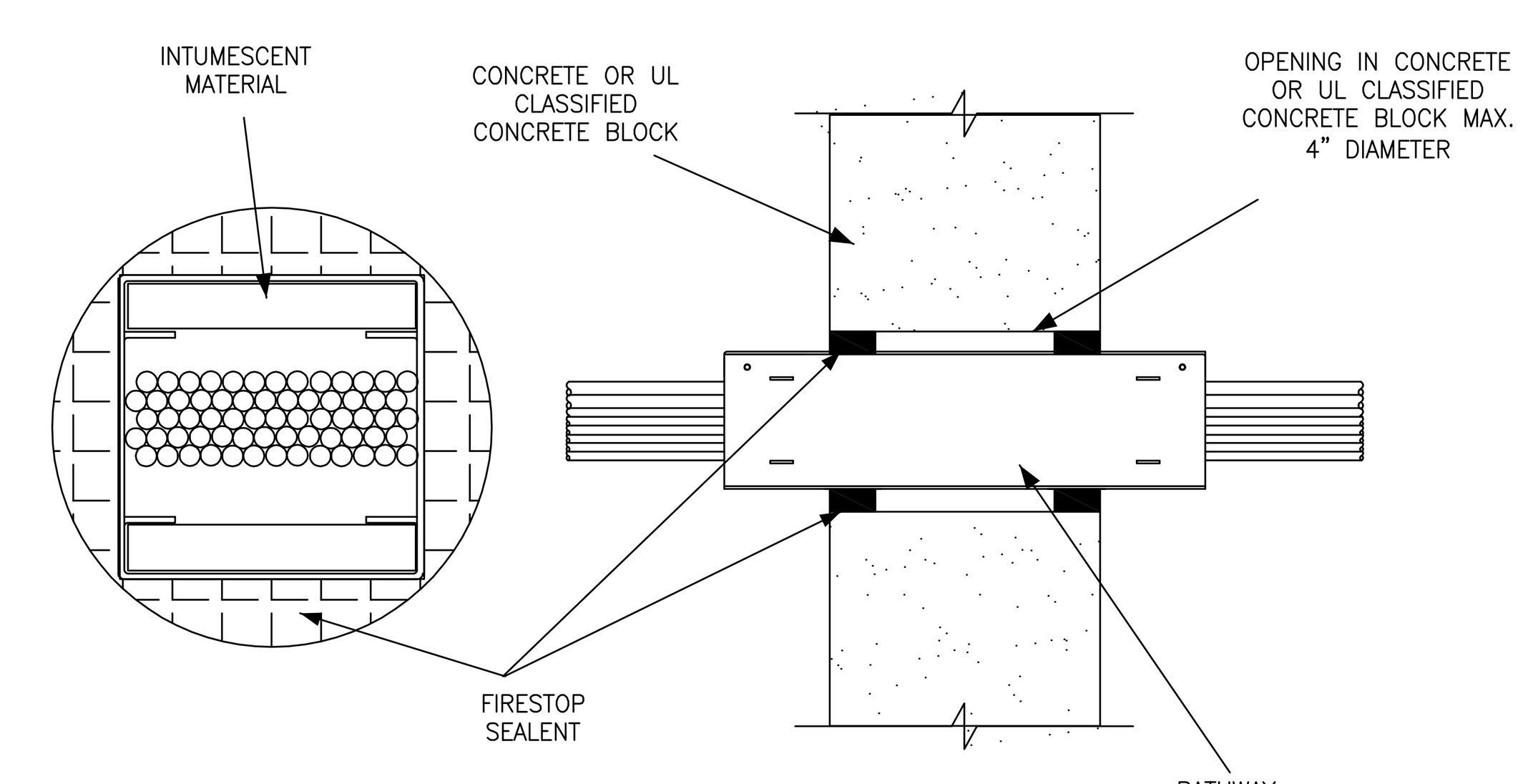


4 TELECOMMUNICATION SYSTEM WIRING DIAGRAM
SCALE: NONE

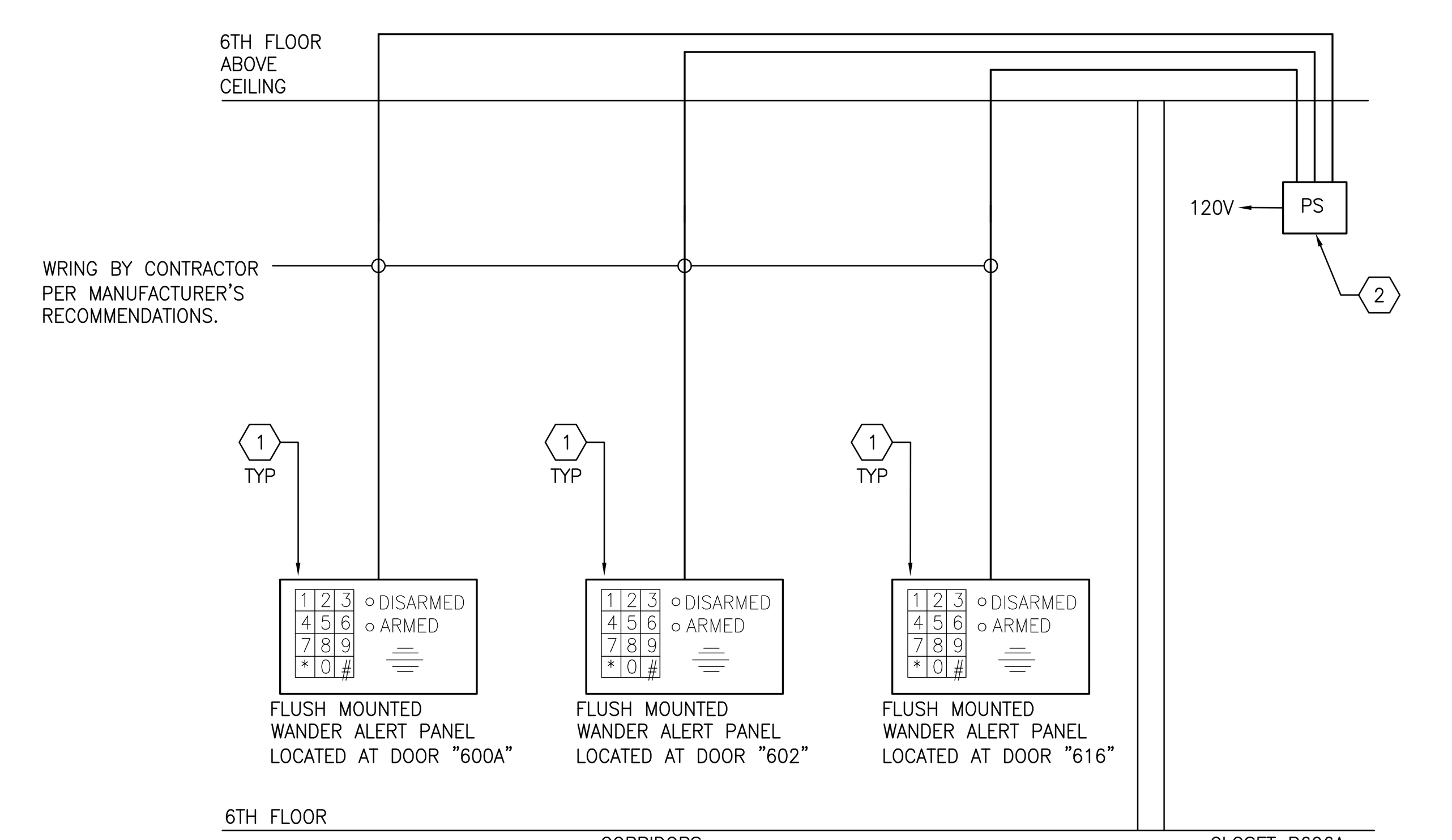
KEYNOTES FOR TELECOMMUNICATION SYSTEM WIRING DIAGRAM

1. E.C. TO PROVIDE AND INSTALL A BASKET TYPE CABLE TRAY 4"H X 12" W. CABLE TRAY WILL RUN ABOVE FINISH CEILING THROUGH CORRIDORS B600A, B600B, B600C. CABLE TRAY SUPPORTS SHALL COMPLY WITH NEC-392, NEMA V1 AND NEMA FG1 STANDARDS. CONTRACTOR TO COORDINATE ELEVATION OF CABLE TRAY WITH MECHANICAL AND PLUMBING EQUIPMENT TO ENSURE 6" CLEAR ACCESS AT TOP AND SIDES.
2. CONTRACTOR TO EXTEND AND COIL CAT 6 WIRING FROM EACH NEW VOICE JACK TO NEW PUNCH BLOCK AND FROM EACH DATA JACK TO NEW DATA RACK. ROUTE ALL CABLES THROUGH RACEWAY IN WALL AND CABLE TRAY IN CEILING. WIRING SHALL BE TERMINATED AND TESTED BY CONTRACTOR. ALLOW SUFFICIENT CABLE SLACK (MINIMUM 15') AT PUNCH BLOCK/RACK CONNECTION SIDE TO FACILITATE ADJUSTMENTS TO FINAL EQUIPMENT LOCATIONS. REFER TO PLANS AND 5/EP-501 FOR TYPICAL TELE-DATA OUTLET REQUIREMENTS.
3. E.C. TO PROVIDE 19" WALL-MOUNT SMART RACK 24U ENCLOSURE CABINET WITH CLEAR PLEXIGLASS FRONT DOOR. E.C. TO PROVIDE AND INSTALL ALL THE COMPONENTS FOR THE NEW WALL-MOUNT IT RACK SUCH AS; CABLE MANAGEMENT SUPPORT BARS FOR PATCH PANEL, CAT 6 ENCLOSURES ACCESSORIES, ADAPTER PANELS, PATCH PANELS AND ANY OTHER EQUIPMENT/ACCESSORY REQUIRED. PRIOR TO ANY PURCHASE, E.C. TO COORDINATE ALL THE COMPONENTS FOR THE NEW IT RACK WITH VA IT FACILITY DEPARTMENT.
4. E.C. TO PROVIDE AND INSTALL TWO POWER STRIPS ON EACH SIDE OF THE NEW RACK. EACH POWER STRIP WILL HAVE A TOTAL OF (5) 5-15 STANDARD RECEPTACLES CONNECTED TO THE POINT OF USE UPS. THE UPS SHALL THEN BE WIRED TO A DEDICATED EMERGENCY POWER QUAD RECEPTACLE MOUNTED ON THE WALL. REFER TO DRAWING EP-101 FOR POWER CONNECTIONS.
5. E.C. TO PROVIDE AND INSTALL NEW PATCH PANELS AND NETWORK SWITCH IN THE QUANTITY REQUIRED TO SUIT THE PROJECT. PRIOR ANY PURCHASE, E.C. TO COORDINATE EXACT REQUIREMENTS WITH VA IT DEPARTMENT.
6. E.C. TO PROVIDE AND INSTALL CONNECTIONS BETWEEN NEW RACK AND EXISTING FIBER NETWORK. CONNECTIONS SHALL BE DONE IN MULTIMODE OPTICAL FIBER, STRANDED 12 PAIR TERMINATED, 62.5/125, SC ENDS. ALL CABLE AND CONNECTIONS SHALL BE TESTED AND CERTIFIED.
7. REFER TO ELECTRICAL DRAWINGS 'EY' SERIES FOR SMOKE ZONES PARTITIONS. WHEN CABLE TRAY IS PENETRATING AN SMOKE PARTITION, E.C. TO PROVIDE AND INSTALL SELF-LOCKING PILLOW FIRE MOUNTING AT CABLE TRAY WALL PENETRATIONS FOR OPENING UP TO 540 SQ. INCHES. REFER TO DETAIL 5/EP-502.
8. E.C. TO PROVIDE AND INSTALL NEW 110 STYLE PUNCHBLOCK. TERMINATE ALL NEW PHONE CABLES AND ESTABLISH CROSS E.C. TO COORDINATE REQUIREMENTS WITH VA IT DEPARTMENT.
9. E.C. TO PROVIDE AND INSTALL 50 PAIR TELEPHONE CABLE, CAT 6, FOR CONNECTIONS BETWEEN NEW PUNCHBLOCK AND EXISTING TELEPHONE SYSTEM IN ROOM AL08.

NOTE: PROVIDE AND INSTALL SELF-LOCKING PILLOW FIRE MOUNTING AT CABLE TRAY WALL PENETRATIONS FOR OPENING UP TO 540 SQ. INCHES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.



5 FIRESTOPPING CONCRET/BLOCK WALL RETROFIT FOR CABLE TRAY
SCALE: NONE



6 WANDER ALERT SYSTEM WIRING DIAGRAM
SCALE: NONE

BID DOCUMENTS

FULLY SPRINKLERED

Revisions	Date

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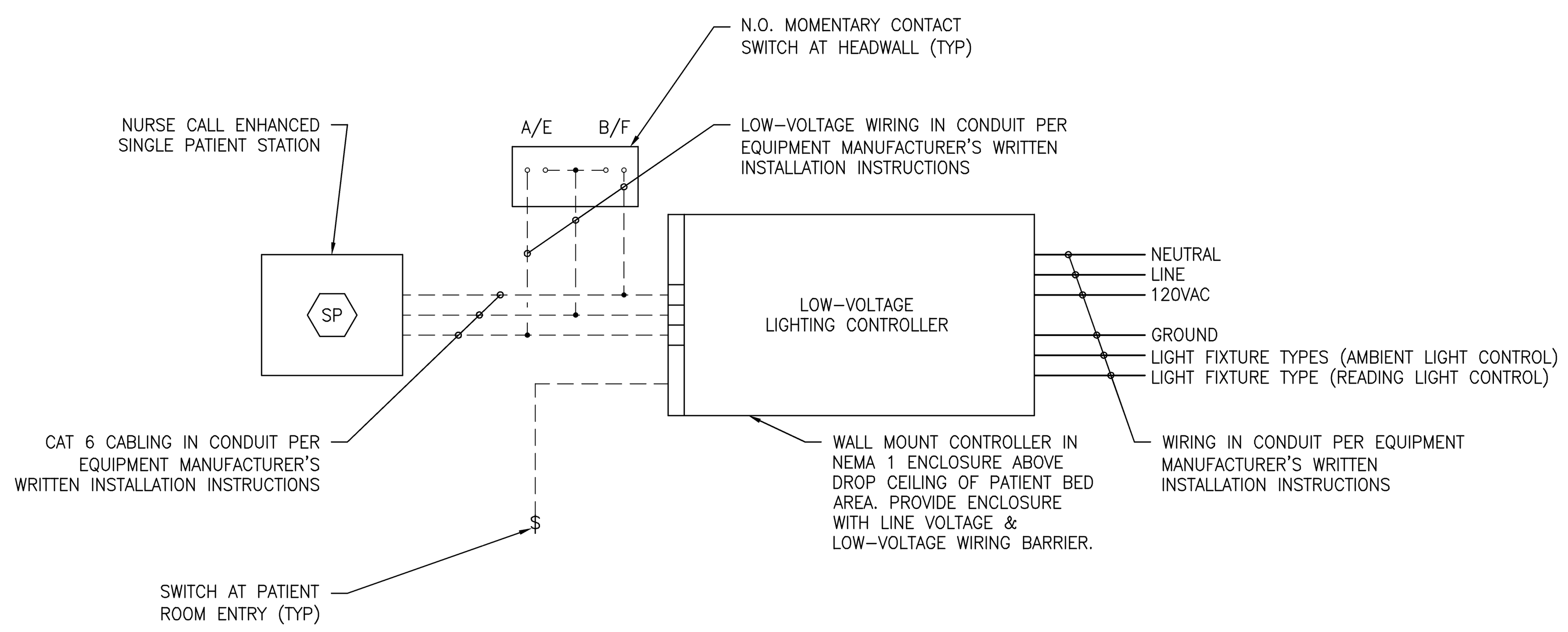
STATE OF NEW YORK — MATTHEW T. COFONE — 085675-1 — LICENSED PROFESSIONAL ENGINEER

Reviewed: Facility Manager	Drawing Title: ELECTRICAL DETAILS
Reviewed: Facility Director	
Reviewed:	Approved: Project Director
Reviewed:	

Project Title: RENOVATION FOR 6B WARD			Date: 10-15-2014
			Project No. 528A7-13-745
Building Number: NO. 1	Checked: BEAVER	Drawn: READ	DRAWING NO. EP-502
Location: VAMC SYRACUSE, NY			Dwg. 73 Of 81

VA HEALTHCARE NETWORK UPSTATE NEW YORK
Department of Veterans Affairs

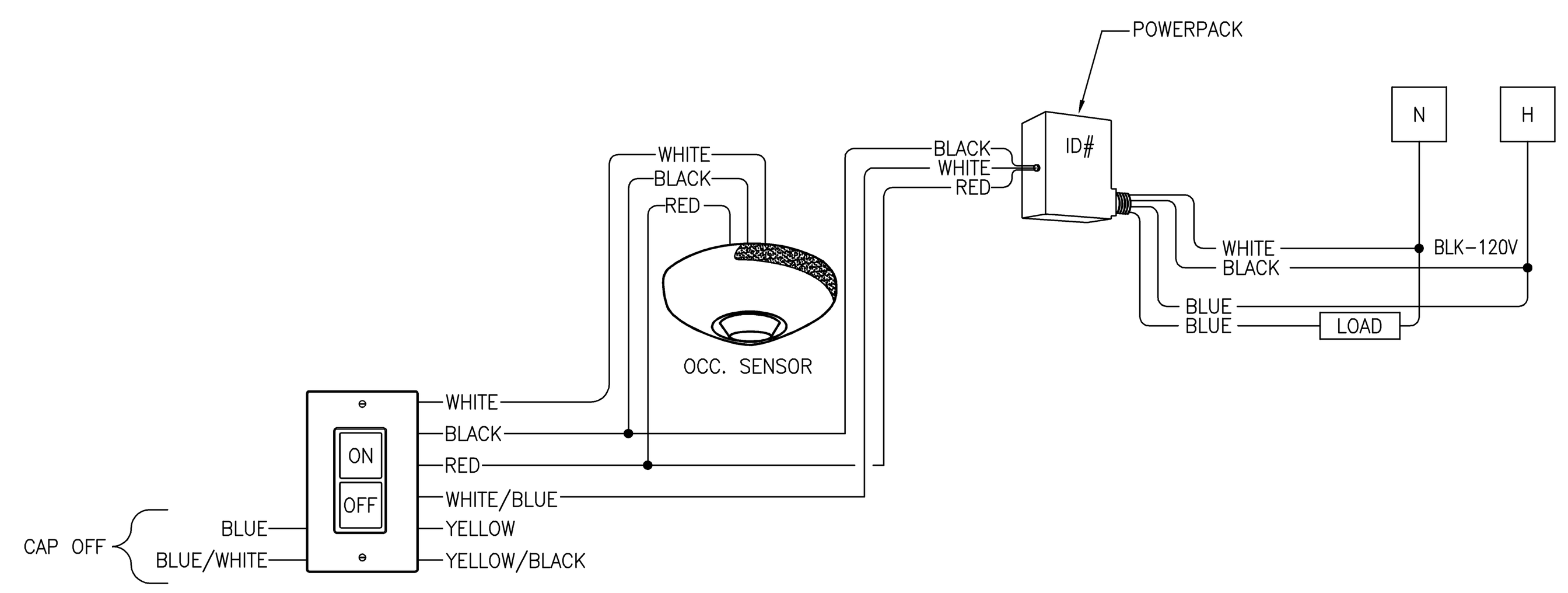


GENERAL NOTES FOR LOW-VOLTAGE LIGHTING CONTROLLER DETAIL ONLY:

A. WIRE DIAGRAM IS FOR REFERENCE ONLY. REFER TO LIGHTING DRAWINGS FOR EXACT SWITCHING LAYOUT.
B. PROVIDE 2 CIRCUIT LOW-VOLTAGE CONTROLLERS WITH INTERFACE TO BUILDING NURSE CALL SYSTEM & UL LISTED (508). HEALTHCARE LIGHTING 1202 LVC OR EQUAL.
C. PROVIDE CAT 6 CABLING, LOW-VOLTAGE POWER CONDUCTORS, 120V POWER CONDUCTORS, & RACEWAYS AS INDICATED. ALL CIRCUITRY SHALL BE INSTALLED PER EQUIPMENT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
D. PROVIDE GROUNDING AS REQUIRED.
E. PROVIDE CONDUCTOR/CABLING TERMINATIONS AS REQUIRED.
F. PROVIDE ALL COMPONENTS, BOXES, RACEWAYS, WIRING, ETC, AS REQUIRED TO PROVIDE A PROPERLY FUNCTIONING LOW-VOLTAGE LIGHTING CONTROL SYSTEM WHETHER OR NOT LISTED ON DRAWINGS OR IN SPECIFICATIONS.
G. FOLLOWING COMPLETION OF WORK, CONTRACTOR SHALL TEST ALL DEVICES & CABLING FOR POWER OPERATION. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY IMPROPERLY FUNCTIONING DEVICE & CABLING.

1 LOW-VOLTAGE LIGHTING CONTROLLER DETAIL

SCALE: NONE

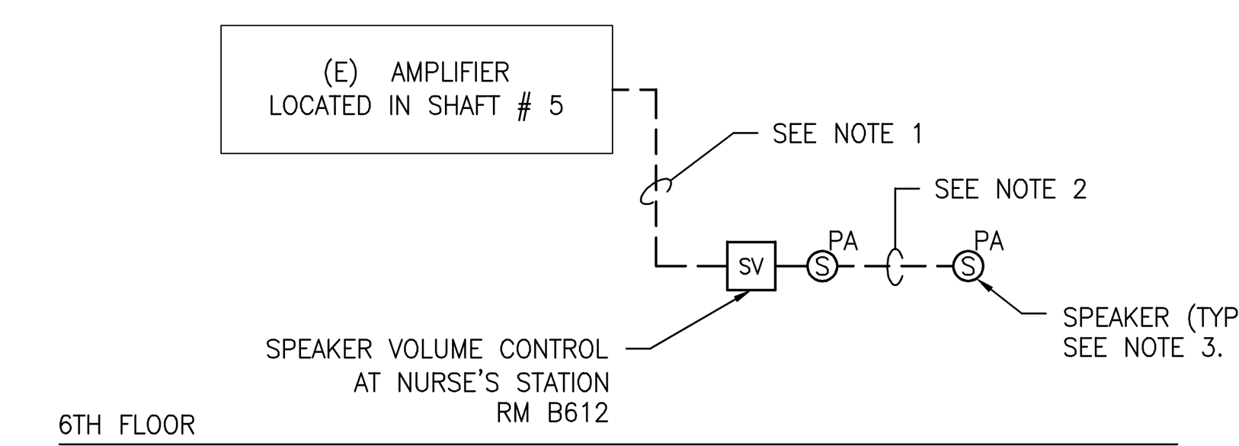


2 TYPICAL OCCUPANCY SENSOR/LOW VOLTAGE SWITCH WIRING DETAIL

SCALE: NONE

NOTES:

1. #18 WIRING SHALL BE RUN FROM THE POWERPACK TO THE OCC SENSOR AND WALL SWITCH.

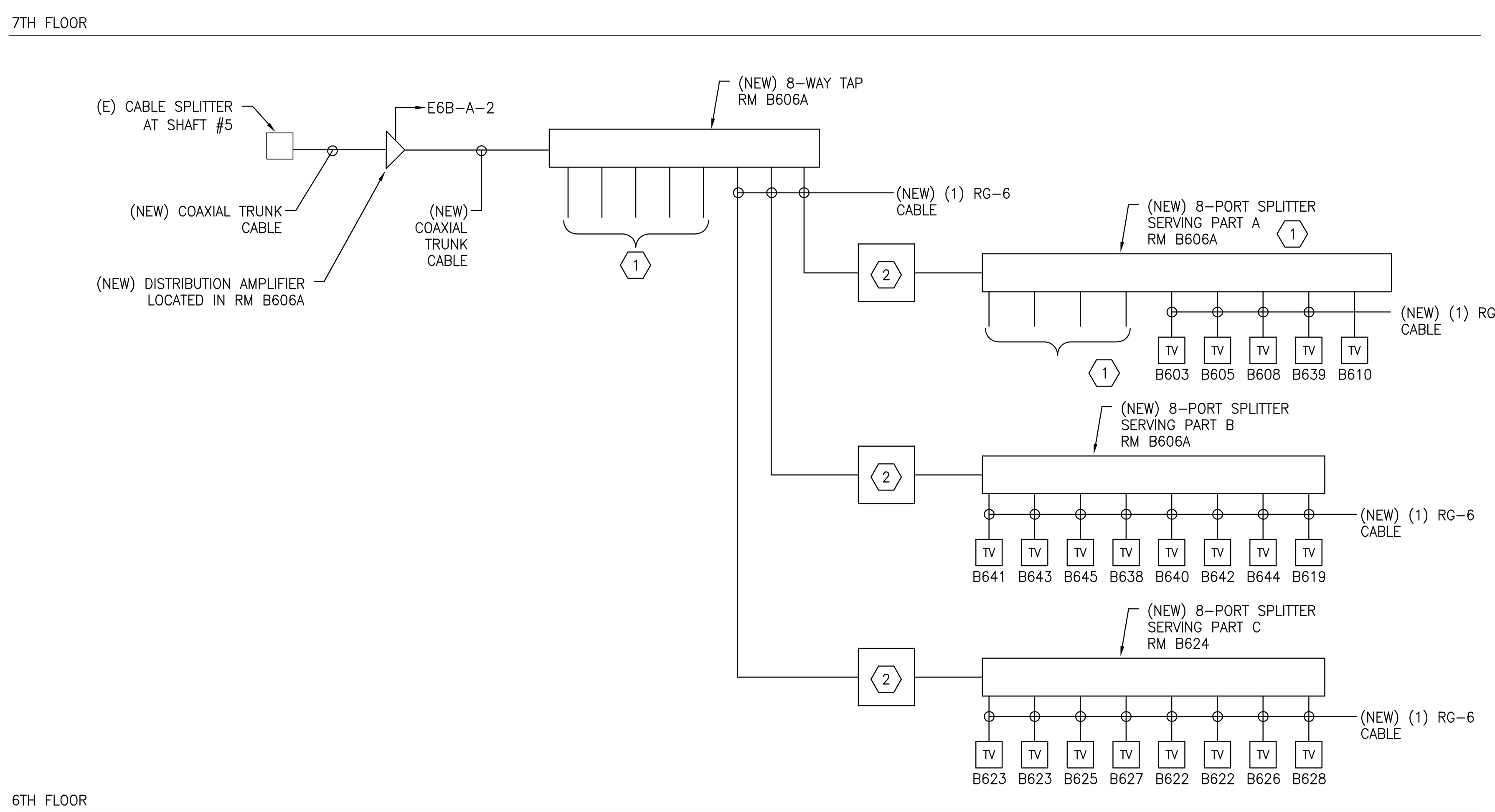


PUBLIC ADDRESS SYSTEM DETAIL NOTES:

1. NEW WIRING FROM EXISTING AMPLIFIER LOCATED IN SHAFT #5 TO SPEAKER VOLUME CONTROL LOCATED IN NURSE'S STATION RM B612, ALL INTERCONNECTING WIRING TO BE NEW.
2. MINIMUM CONDUCTOR SIZE 16AWG. CONTRACTOR TO INCREASE AS REQUIRED FOR VOLTAGE DROP.
3. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF ALL SPEAKERS.
4. ALL NEW PA CONDUIT AND JUNCTION BOXES MUST BE PAINTED YELLOW.

3 PUBLIC ADDRESS SYSTEM RISER

SCALE: NO SCALE



4 MATV SYSTEM RISER DIAGRAM

SCALE: NONE

MATV SCOPE OF WORK

1. PROVIDE 8-WAY SPLITTER AND DISTRIBUTION AMPLIFIER WHERE INDICATED ON FLOOR PLANS.
2. PROVIDE HDTV OUTLETS AND PATIENT BED HDTV OUTLETS WHERE INDICATED ON PLANS.
3. PROVIDE PLENUM RATED, RG-6/U COAXIAL CABLES WITH SOLID COPPER CENTER CORE AND COPPER SHIELD.
4. COAXIAL CABLE LENGTHS SHALL NOT EXCEED 150' IN LENGTH BETWEEN COMPONENTS.
5. PROVIDE TYPE "F" CONNECTORS AND TERMINATIONS AS REQUIRED.
6. FOLLOWING COMPLETION OF WORK, CONTRACTOR SHALL TEST ALL DEVICES AND CABLING (OUTLETS, AMPLIFIERS, COUPLERS, ETC) FOR PROPER OPERATION. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY IMPROPERLY FUNCTIONING DEVICES AND CABLING.
7. PROVIDE ALL COMPONENTS AND WIRING FOR MATV SYSTEM NECESSARY TO PROVIDE A PROPERLY FUNCTION SYSTEM WHETHER OR NOT LISTED ON DRAWINGS OR IN SPECIFICATIONS.

GENERAL NOTES (FOR MATV RISER DIAGRAM ONLY):

1. VERIFY AND COORDINATE OUTLET TYPES, LOCATIONS, AND QUANTITIES WITH CONTRACT DOCUMENTS INCLUDING FLOOR PLANS.
2. SIZE THE DISTRIBUTION AMPLIFIER AND 8-WAY SPLITTER TO DELIVER SIGNAL STRENGTH (TO EACH TELEVISION) PER MATV SYSTEM MANUFACTURER'S RECOMMENDATIONS. IF REQUIRED, PROVIDE ADDITINOAL DISTRIBUTION AMPLIFIERS TO ACHIEVE SIGNAL REQUIREMENTS.

MATV DETAIL KEYNOTES:

1. PROVIDE TERMINATION(S) CAP(S) FOR TV OUTPUT(S) WHICH ARE UNUSED.
2. MATV SYSTEM POWER SUPPLY MOUNTED ABOVE CEILING. PROVIDE 2#12 + 1#12GRND IN 3/4"C.

BID DOCUMENTS

FULLY SPRINKLERED

Revisions	Date

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MATTHEW T. COFONE
085675-1
LICENSED PROFESSIONAL ENGINEER

Reviewed: Facility Manager

Reviewed: Facility Director

Reviewed:

Reviewed:

Drawing Title: ELECTRICAL DETAILS

Approved: Project Director

Project Title: RENOVATION FOR 6B WARD

Building Number: NO. 1 | Checked: BEAVER | Drawn: READ

Location: VAMC SYRACUSE, NY

Date: 10-15-2014

Project No.: 528A7-13-745

DRAWING NO.: EP-503

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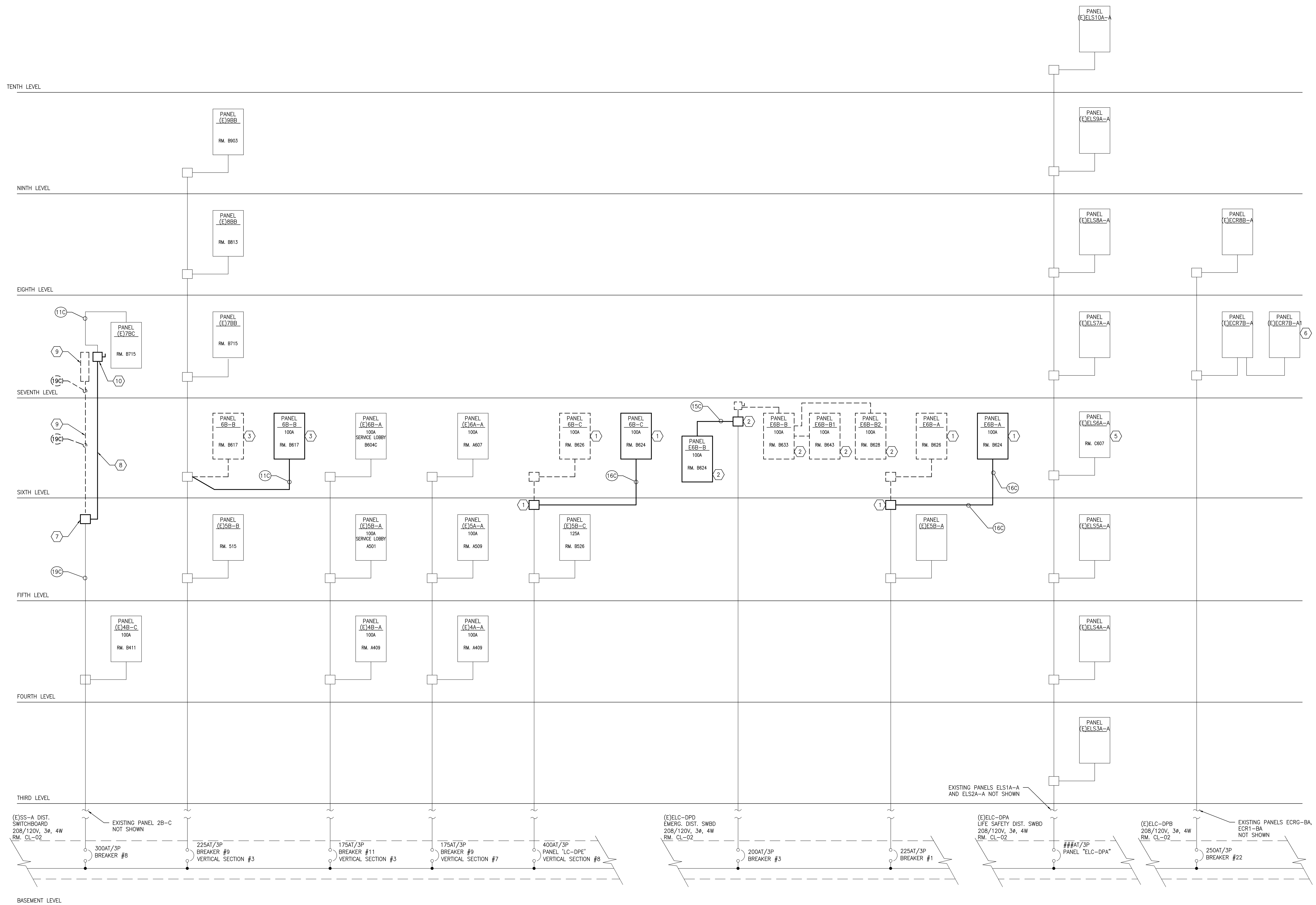
VA HEALTHCARE NETWORK UPSTATE NEW YORK

Department of Veterans Affairs



GENERAL SHEET NOTES:

1. SEE DRAWING E-001 AND E-002 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.

SHEET KEYNOTES:

1. EXISTING PANELS 6B-C AND E6B-A TO BE DEMOLISHED. PROVIDE NEW PANELS 6B-C AND E6B-A AS SHOWN ON DRAWINGS. EXISTING RISER FOR PANELS 6B-C AND E6B-A RUNNING THROUGH 5TH FLOOR ELECTRICAL ROOM B526 TO BE EXTENDED TO 5TH FLOOR ROOM B525. PROVIDE SPLICE BOX ON CEILING AT 5TH FLOOR ROOM B525 AS REQUIRED FOR EMERGENCY AND NORMAL FEEDERS. RUN CONDUITS UP TO NEW PANELS 6B-C AND E6B-A, LOCATED IN NEW 6TH FLOOR ELECTRICAL CLOSET B624. REFER TO DRAWING EP-101.
2. EXISTING PANELS E6B-B, E6B-B1, AND E6B-B2 TO BE DEMOLISHED. PROVIDE NEW PANEL E6B-B AS SHOWN ON DRAWINGS. PROVIDE SPLICE BOX ABOVE 6TH FLOOR CEILING OF CORRIDOR B600A. REROUTE NEW EMERGENCY FEEDER AND CONDUIT THROUGH 6TH FLOOR CORRIDOR CEILING TO NEW PANEL E6B-B LOCATED IN NEW ELECTRICAL CLOSET B624.
3. EXISTING PANEL 6B-B TO DEMOLISHED AND REPLACED BY A NEW 208/120V, 42 CIRCUIT, 3ø, 4W PANEL. EXISTING BRANCH CIRCUITS FEEDING DEVICES OUT OF THE SCOPE OF WORK AREA TO BE BACK-FED AS REQUIRED TO NEW PANEL 6B-B.
4. NOT USED.
5. ESSENTIAL LOADS FOR LIFE SAFETY, SUCH AS NURSE CALL, MEDICAL GAS ALARM, EXIT SIGNS, AND ILLUMINATION OF EMERGENCY EGRESS WILL BE CONNECTED TO EXISTING PANEL ELS6A-A LOCATED IN ROOM C607.
6. ESSENTIAL LOADS FOR FIRE DAMPERS WILL BE CONNECTED TO EXISTING PANEL ECR7B-A1 LOCATED IN EXISTING MECH SHAFT #2, 7TH FLOOR.
7. INTERCEPT FEEDER AND CONDUIT AT THE 5TH FLOOR CEILING, RM B536.
8. PROVIDE AN INSTALL NEW 4-500 KCMIL AND 1#3 GND & 3-1/2" CONDUIT. FEEDER AND CONDUIT TO BE EXTENDED FROM 5TH FLOOR CEILING TO 7TH FLOOR ROOM B717.
9. EXISTING 4-500 KCMIL AND 1#3 GND & 3-1/2" CONDUIT TO BE REMOVED. EXISTING WIRETROUGH IN RM B717 TO BE DEMOLISHED.
10. PROVIDE NEW 3 POLE 125 AMP ENCLOSED BREAKER. EXISTING 4#1 AWG, 1#6 GND IN 1-1/2" CONDUIT TO BE CONNECTED TO NEW 125AMPS ENCLOSED BREAKER.

WIRE AND CONDUIT SIZING SCHEDULE

1. CONDUIT SIZES SHOWN ARE TYPICAL FOR CONDUCTOR SIZES AND QUANTITY. CONDUIT AND WIRE SIZE NOTED ON THE ELECTRICAL FLOOR PLANS AND SINGLE LINE TAKE PRECEDENCE.

SINGLE LINE TAG: THIS COLUMN COMBINED WITH "A", "B", OR "C" COLUMN	WIRE SIZE (AWG/KCMIL)		NO. OF WIRES & CONDUIT SIZE IN INCHES		
	CONDUCTOR PHASE & NEUTRAL	GROUND	A 1PH, 2W+G	B 3PH, 3W+G	C 3PH, 4W+G
1	14	14	3/4	3/4	3/4
2	12	12	3/4	3/4	3/4
3	10	10	3/4	3/4	3/4
4	8	10	3/4	3/4	3/4
5	6	10	3/4	3/4	1
6	4	10	3/4	1	1 1/4
7	4	8	3/4	1	1 1/4
8	3	8	1	1	1 1/4
9	2	8	1	1 1/4	1 1/4
10	1	8	1 1/4	1 1/4	1 1/2
11	1	6	1 1/4	1 1/4	1 1/2
12	1	6	1 1/4	1 1/4	1 1/2
13	1/0	6	1 1/4	1 1/2	1 1/2
14	2/0	6	1 1/2	2	2
15	3/0	6	1 1/2	2	2
16	4/0	4	1 1/2	2	2 1/2
17	250	4	2	2 1/2	2 1/2
18	350	4	2 1/2	2 1/2	3
19	500	3	2 1/2	3	3
20	(2) 3/0	(2) 3	(2) 1 1/2	(2) 2	(2) 2
21	(2) 4/0	(2) 2		(2) 2	(2) 2 1/2
22	(2) 250	(2) 2		(2) 2	(2) 2 1/2
23	(2) 350	(2) 1		(2) 2 1/2	(2) 3
24	(2) 500	(2) 1/0		(2) 3	(2) 3 1/2
25	(3) 300	(3) 1/0		(3) 2 1/2	(3) 3
26	(3) 400	(3) 2/0		(3) 3	(3) 3
27	(4) 350	(4) 3/0		(4) 2 1/2	(4) 3
28	(5) 400	(5) 4/0		(5) 3	(5) 3
29	(6) 400	(6) 250		(6) 3	(6) 3
30	(7) 500	(7) 350		(7) 3	(7) 3 1/2
31	(8) 500	(8) 400		(8) 3	(8) 3 1/2
EX	EXISTING FEEDERS AND CONDUIT				

BID DOCUMENTS

FULLY SPRINKLERED

Revisions | Date

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STATE OF NEW YORK — MATTHEW T. COFONE — 085675-1 — LICENSED PROFESSIONAL ENGINEER

Reviewed: Facility Manager	Drawing Title: ELECTRICAL SINGLE LINE
Reviewed: Facility Director	
Reviewed:	Approved: Project Director
Reviewed:	

Project Title: RENOVATION FOR 6B WARD		
Building Number: NO. 1	Checked: BEAVER	Drawn: READ
Location: VAMC SYRACUSE, NY		

Date: 10-15-2014

Project No.: 528A7-13-745

DRAWING NO.: EP-601

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VA HEALTHCARE NETWORK UPSTATE NEW YORK

Department of Veterans Affairs

VA FORM 08-6231

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

LIGHTING FIXTURE SCHEDULE

TYPE	DIMENSIONS	DESCRIPTION	LAMPS QTY	LAMPS TYPE	BALLAST QTY	VOLTS	MOUNTING	REMARKS
A1	2'x4'	PATIENT ROOM BED LIGHT: LOW PROFILE, LESS THAN 5", DIRECT/INDIRECT BASKET TYPE TROFFER, MULTI-FUNCTION PATIENT ROOM LUMINARE. ANTIMICROBIAL FINISH, TOOL-LESS ACCESS FOR LAMP REPLACEMENT.	6	T8 32W	3	MVOLT	RECESSED GRID	GRID MOUNTED FIXTURE. FIXTURE IS CAPABLE OF AMBIENT, READING AND EXAM LIGHT LEVELS.
A2	2'x4'	OFFICE / GENERAL LIGHT: LOW PROFILE, LESS THAN 5", DIRECT/INDIRECT ACRLYIC TROFFER, SHALLOW HOUSING DEPTH, WHITE PERFORATED DIFFUSER WITH SHEILD, WHITE MATTE FINISH, PAINT AFTER FABRICATION.		LED 3000 LUMENS, 3500K	1 LED DRIVER	MVOLT	RECESSED GRID	
B1	2'x2'	CORRIDOR LIGHT: LOW PROFILE, LESS THAN 5", DIRECT/INDIRECT ACRLYIC TROFFER, SHALLOW HOUSING DEPTH, WHITE PERFORATED DIFFUSER WITH SHEILD, WHITE MATTE FINISH, PAINT AFTER FABRICATION.		LED 3000 LUMENS, 3500K	1 LED DRIVER	MVOLT	RECESSED GRID	
B2	2'x2'	CORRIDOR LIGHT - LIFE SAFETY: LOW PROFILE, LESS THAN 5", DIRECT/INDIRECT ACRLYIC TROFFER, SHALLOW HOUSING DEPTH, WHITE PERFORATED DIFFUSER WITH SHEILD, WHITE MATTE FINISH, PAINT AFTER FABRICATION.		LED 3000 LUMENS, 3500K	1 LED DRIVER	MVOLT	RECESSED GRID	
C1	1'x4'	ALCOVE LIGHT: LOW PROFILE LINEAR LED. NOMINAL 1/4" THICK FROSTED CLEAR ACYLIC WITH RABBETED ENDS TO PREVENT LIGHT LEAKS. SEMI-DIFFUSE PARABOLIC BAFFLE, MATTE WHITE FINISH PAINT AFTER FABRICATION.		LED 3000 LUMENS, 3500K	1 LED DRIVER	MVOLT	RECESSED GRID	
D1	6"	PATIENT ROOM AND GENERAL DOWN LIGHT: LOW PROFILE, LESS THAN 6", ROUND RECESSED DOWNLIGHT. HIGHLY REFLECTIVE WHITE ALUMINUM REFLECTOR. FINNED EXTRUDED ALUMINUM HEAT SINK SOCKET HOUSING. ONE-PIECE PAN CONSTRUCTION, CLEAR ANNODIZED FINISH, THERMAL MANAGEMENT SYSTEM.		LED 3000 LUMENS, 3500K	1 LED DRIVER	MVOLT	RECESSED GRID	
D2	6"	SHOWER LIGHT: LOW PROFILE, LESS THAN 6", ROUND RECESSED SHOWER DOWNLIGHT. HIGHLY RELFECTIVE WHITE ALUMINUM REFLECTOR. DROP OPAL PLASTIC LENS WITH POLYETHYLENE GASKET AND WHITE ABS TRIM. FINNED EXTRUDED ALUMINUM HEAT SINK SOCKET HOUSING. ONE-PIECE PAN CONSTRUCTION, CLEAR ANNODIZED FINISH, THERMAL MANAGEMENT SYSTEM.		LED 2000 LUMENS,	1 LED DRIVER	MVOLT	RECESSED GRID	
D3	6"	CORRIDOR WALL WASH: LOW PROFILE, LESS THAN 6", ROUND RECESSED DIMMABLE WALL WASH DOWNLIGHT. HIGH EFFICIENCY, LOW BRIGHTNESS WITH INTERNAL SPECULAR REFLECTOR AND CONVEX GLASS SPREAD LENS. ONE PIECE DIE CAST ALUMINUM, CLEAR ANNODIZED FINISH, THERMAL MANAGEMENT SYSTEM.		LED 3000 LUMENS, 3500K	1 LED DRIVER	120	RECESSED GRID	
N1	6" x 3"	PATIENT ROOM NIGHT LIGHT: SURFACE MOUNTED WALL SCONCE, RECTANGULAR HOUSING WITH CURVED, HALF-SHIELDED ACRYLIC DIFFUSER, WHITE LED		LED 35 LUMENS, 3500K	1 LED DRIVER	120	FLUSH	MOUNT 18" AFF
U1	6" x 24"	UNDERCABINET LIGHT: SEALED UNDERCABINET LINEAR LED WITH INTEGRAL ROCKER SWITCH, HIGH IMPACT POLYCARBONATE LENS, END CAPS, MATTE WHITE, ANTIMICROBIAL FINISH.		LED 1200 LUMENS, 3500K	1 LED DRIVER	MVOLT	SURFACE	
W1	6" x 14"	PATIENT ROOM WALL SCONCE: DECORATIVE LED WALL SCONCE. RECTANGULAR HOUSING WITH ROUND LINEAR DECORATIVE DIFFUSER, SEAL COVER WITH END CLOSURES. SATIN NICKEL TRIM.		LED 1200 LUMENS, 3500K	1 LED DRIVER	MVOLT	SURFACE	MOUNT 72" AFF
W2	18"	PATIENT BATHROOM LIGHT: DECORATIVE LED. RECTANGULAR HOUSING WITH ROUND LINEAR DECORATIVE DIFFUSER, SEAL COVER WITH END CLOSURES. SATIN NICKEL TRIM.		LED 2000 LUMENS, 3500K	1 LED DRIVER	MVOLT	SURFACE	
X	N/A	LED EXIT SIGN		LED	1	120	SURFACE	VA STANDARD GILBERT DOT MATRIX

Panel Name: ECRB7B-A1

Existing Panel

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire — Main Lugs Only: Yes — Main Breaker: — Panel A.I.C. Rating: Existing

ID	Ckt #	Description	P	Trip	Code	VA	A	B	C	VA	Code	Trip	P	Description	Ckt #	ID
EX	1	IN USE	1	20	EX	800	1600			800	EX	20	1	IN USE	2	EX
EX	3	IN USE	1	20	EX	800		1600		800	EX	20	1	IN USE	4	EX
EX	5	IN USE	1	20	EX	800			1600	800	EX	20	1	IN USE	6	EX
EX	7	IN USE	1	20	EX	800	1600			800	EX	20	1	IN USE	8	EX
EX	9	IN USE	1	20	EX	800		1600		800	EX	20	1	IN USE	10	EX
EX	11	IN USE	1	20	EX	800			1600	800	EX	20	1	IN USE	12	EX
EX	13	IN USE	1	20	EX	800	1600			800	EX	20	1	IN USE	14	EX
EX	15	IN USE	1	20	EX	800		1600		800	EX	20	1	IN USE	16	EX
EX	17	IN USE	1	20	EX	800			1600	800	EX	20	1	IN USE	18	EX
EX	19	IN USE	1	20	EX	800	1600			800	EX	20	1	IN USE	20	EX
EX	21	IN USE	1	20	EX	800		800				20	1	Spare	22	
	23	Space												Space	24	
	25	Space					400			400	C	20	1	Smoke Damper - Shaft #2	26	N
	27	Space												Space	28	
	29	Space												Space	30	
	31	Space												Space	32	
	33	Space												Space	34	
	35	Space												Space	36	
	37	Space												Space	38	
	39	Space												Space	40	
	41	Space												Space	42	

Total Connected Load: 6800 | 5600 | 4800 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	NEC Sizing Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)		1.00	
Existing (E)	16800	1.25	21000
Continuous (C)	400	1.25	500
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	17200		21500 VA

ELECTRICAL DATA

"ESTIMATED" Load: 17 KVA
"ESTIMATED" Load: 48 Amps
NEC Sizing Load: 22 KVA
NEC Sizing Load: 60 Amps
Main Bus Size: 125 Amps

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION

Location: C607
Mounting: Surface — Enclosure Type: Nema 1
Fed From: (EX) ELC-DPA Distribution SWBD Panel "ELC-DPA"
Equipment Ground Bus: Yes — Bus Material: Copper
Isolated Ground Bus: No — Neutral Size: 100%

PANEL NOTES

Panel Name: 6B-B

New Panel

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire — Main Lugs Only: — Main Breaker: 100 — Panel A.I.C. Rating: 22k

ID	Ckt #	Description	P	Trip	Code	VA	A	B	C	VA	Code	Trip	P	Description	Ckt #	ID
N	1	Rec - B600A & B602	1	20	REC	1080	2340			1260	REC	20	1	Rec - B600C East Side	2	N
N	3	Rec - B606	1	20	REC	1080		1980		900	REC	20	1	Rec - B600C West Side	4	N
N	5	Rec - B608 & 10	1	20	REC	1260			2520	1260	REC	20	1	Rec - B639, 41, & 41A	6	N
N	7	Rec - B612, 14, & Nourishment	1	20	REC	1080	2160			1080	REC	20	1	Rec - B639 & 41	8	N
N	9	Rec - B612 & 14	1	20	REC	1080		2340		1260	REC	20	1	Rec - B643, 45, & 45A	10	N
N	11	Rec - A602 & B601	1	20	REC	1260			2340	1080	REC	20	1	Rec - B643 & 45	12	N
N	13	Rec - B603, 3A, 5, & 5A	1	20	REC	1260	2520			1260	REC	20	1	Rec - B638, 40, & 40A	14	N
N	15	Rec - B603, 3A, 5, & 5A	1	20	REC	1260		2340		1080	REC	20	1	Rec - B638 & 40	16	N
N	17	Rec - B607 & 37	1	20	REC	900			2160	1260	REC	20	1	Rec - B642, 44, & 44A	18	N
N	19	Rec - B617 & 36	1	20	REC	1200	2280			1080	REC	20	1	Rec - B642 & 44	20	N
N	21	Lts - A602, B601, B637, B617, B614, B610, B606	1	20	L	448		1648		1200	REF	20	1	Refrigerator - B610	22	N
N	23	Microwave - B610	1	20	K	1200			2400	1200	REF	20	1	Freezer - B610	24	N
N	25	Ice Machine - B610	1	20	K	1200	1600			400	C	20	1	MATV Power Supply - Corridor B600A	26	N
N	27	Refrigerator - B610	1	20	REC	1200		1600		400	C	20	1	MATV Power Supply - Corridor B600C	28	N
N	29	Wipe Warmer - Alcove	1	20	REC	1200			1200			20	1	Spare	30	N
N	31	Rec - B637	1	20	REC	720	720					20	1	Spare	32	N
N	33	Spare	1	20								20	1	Spare	34	N
N	35	Spare	1	20								20	1	Spare	36	N
N	37	Spare	1	20								20	1	Spare	38	N
N	39	Spare	1	20								20	1	Spare	40	N
N	41	Spare	1	20								20	1	Spare	42	N

Total Connected Load: 11620 | 9908 | 10620 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	NEC Sizing Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)	2400	1.00	2400
Lighting (L)	448	1.25	560
Receptacles (REC)	26100	0.69	18050
Existing (E)		1.25	
Continuous (C)	800	1.25	1000
Non-Continuous (NC)		1.00	
Refrigeration (REF)	2400	1.00	2400
Elec. Load Totals:	32148		24410 VA

ELECTRICAL DATA

Total Conn. Load: 32 KVA
Total Conn. Load: 89 Amps
NEC Sizing Load: 24 KVA
NEC Sizing Load: 68 Amps
Main Bus Size: 125 Amps

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION

Location: B617
Mounting: Surface — Enclosure Type: Nema 1
Fed From: (EX) SS-A Distribution Switchboard Sec 3 Brk #9
Equipment Ground Bus: Yes — Bus Material: Copper
Isolated Ground Bus: No — Neutral Size: 100%

PANEL NOTES

Panel Name: E6B-A

New Panel

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire — Main Lugs Only: — Main Breaker: 100 — Panel A.I.C. Rating: 22k

ID	Ckt #	Description	P	Trip	Code	VA	A	B	C	VA	Code	Trip	P	Description	Ckt #	ID
N	1	Lts - B600A, B, C, B602, & Patient Nite Lites	1	20	L	1000	2080			1080	REC	20	1	Rec - B606 & 8	2	N
N	3	Lts - B600A, B, C, B602 (Accent & Task)	1	20	L	1082		2162		1080	REC	20	1	Rec - B600A, B602, B606A	4	N
N	5	Lts - B606, 8, 8A, 10, 12, & 14	1	20	L	1128			2208	1080	REC	20	1	Rec - B600A Aclove, B600B, B610, & 12	6	N
N	7	Lts - A602, B601, 3, 3A, 5, 5A, 7, 17, 36, & 37	1	20	L	1572	2652			1080	REC	20	1	Rec - B612 & 14	8	N
N	9	Lts - B639, 41, 41A, 43, 45, & 45A	1	20	L	1410		2310		900	REC	20	1	Rec - A602 & B601	10	N
N	11	Lts - B638, 40, 40A, 42, 44, & 44A	1	20	L	1410			2310	900	REC	20	1	Rec - B603 & 5	12	N
N	13	Lts - B618, 22, 22A, 26, 26A, 28, & 28A	1	20	L	1517	2417			900	REC	20	1	Rec - B603 & 5	14	N
N	15	Lts - B619, 19A, 23, & 23A	1	20	L	1065		2145		1080	REC	20	1	Rec - B617, 36, & 37	16	N
N	17	Lts - B625, 25A, 27, & 27A	1	20	L	762			1362	600	REC	20	1	Rec - Patient Lifts B603, 5, 8, & LV Lav B603 & 8	18	N
N	19	Condensate Pumps - B608, 10, 12, 02, 06	1	20	C	660	1380			720	REC	20	1	Rec - B637	20	N
N	21	Spare	1	20								20	1	Spare	22	N
N	23	Spare	1	20					360	360	REC	20	1	Rec - B604C	24	N
N	25				REC	1500	1500					20	1	Spare	26	N
N	27	Bed Pan Washer - B636 (See Note 1)	1	30	REC	1500		1500				20	1	Spare	28	N
N	29				REC	1500			1860	360	REC	20	1	Rec - B604C	30	N
N	31	Spare	1	20			1000			1000	REC	20	1	Rec - Refrigerator - Nourishment	32	N
N	33	PYXS - B617	1	20	REC	500		1500		1000	REC	20	1	Rec - Freezer - Nourishment	34	N
N	35	PYXS - B618	1	20	REC	500			1500	1000	REC	20	1	Rec - Microwave - Nourishment	36	N
N	37	Refrigerator - B617	1	20	REC	1000	2000			1000	REC	20	1	Rec - Ice Machine - Nourishment	38	N
N	39	Med Hub - B617	1	20	REC	500		1000		500	REC	20	1	Wander Guard	40	N
N	41	Med Hub - B617	1	20	REC	500			680	180	REC	20	1	Rec - B600A Digital White Board	42	N

Total Connected Load: 13029 | 10617 | 10280 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	NEC Sizing Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	10946	1.25	13683
Receptacles (REC)	22320	0.72	16160
Existing (E)		1.25	
Continuous (C)	660	1.25	825
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	33926		30668 VA

ELECTRICAL DATA

Total Conn. Load: 34 KVA
Total Conn. Load: 94 Amps
NEC Sizing Load: 31 KVA
NEC Sizing Load: 85 Amps
Main Bus Size: 125 Amps

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION

Location: B624
Mounting: Surface — Enclosure Type: Nema 1
Fed From: (EX) ELC-DP Distribution Switchboard Panel 'E4"Brk #1
Equipment Ground Bus: Yes — Bus Material: Copper
Isolated Ground Bus: No — Neutral Size: 100%

PANEL NOTES

1. Prior to any purchase of installation, electrical contractor to verify exact power

Panel Name: 6B-C

New Panel

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire — Main Lugs Only: — Main Breaker: 100 — Panel A.I.C. Rating: 22k

ID	Ckt #	Description	P	Trip	Code	VA	A	B	C	VA	Code	Trip	P	Description	Ckt #	ID
N	1	Rec - B600B North Side	1	20	REC	900	2160			1260	REC	20	1	Rec - B625, 25A, & 27	2	N
N	3	Rec - B600B South Side	1	20	REC	720		1980		1260	REC	20	1	Rec - B625, 27, & 27A	4	N
N	5	Rec - B626, 26A, & 28	1	20	REC	1260			2160	900	REC	20	1	Rec - B623	6	N
N	7	Rec - B626, 28, & 28A	1	20	REC	1260	2160			900	REC	20	1	Rec - B623 & 23A	8	N
N	9	Rec - B622	1	20	REC	1080		1800		720	REC	20	1	Rec - B619 & 19A	10	N
N	11	Rec - B622 & 22A	1	20	REC	1080			1620	540	REC	20	1	Rec - B619	12	N
N	13	Spare	1	20			400			400	C	20	1	MATV Power Supply - Corridor B600B	14	N
N	15	Spare	1	20								20	1	Spare	16	N
N	17	Spare	1	20								20	1	Spare	18	N
N	19	Spare	1	20								20	1	Spare	20	N
N	21	Spare	1	20								20	1	Spare	22	N
N	23	Spare	1	20								20	1	Spare	24	N
N	25	Spare	1	20								20	1	Spare	26	N
N	27	Spare	1	20								20	1	Spare	28	N
N	29	Spare	1	20								20	1	Spare	30	N
N	31	Spare	1	20								20	1	Spare	32	N
N	33	Spare	1	20								20	1	Spare	34	N
N	35	Spare	1	20								20	1	Spare	36	N
N	37	Spare	1	20								20	1	Spare	38	N
N	39	Spare	1	20								20	1	Spare	40	N
N	41	Spare	1	20								20	1	Spare	42	N

Total Connected Load: 4720 | 3780 | 3780 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	NEC Sizing Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)	11880	0.92	10940
Existing (E)		1.25	
Continuous (C)	400	1.25	500
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	12280		11440 VA

ELECTRICAL DATA

Total Conn. Load: 12 KVA
Total Conn. Load: 34 Amps
NEC Sizing Load: 11 KVA
NEC Sizing Load: 32 Amps
Main Bus Size: 125 Amps

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION

Location: B624
Mounting: Surface — Enclosure Type: Nema 1
Fed From: (EX) SS-A Distribution Switchboard Sec 8
Equipment Ground Bus: Yes — Bus Material: Copper
Isolated Ground Bus: No — Neutral Size: 100%

PANEL NOTES

Panel Name: ELS6A-A

Existing Panel

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire — Main Lugs Only: — Main Breaker: 60 — Panel A.I.C. Rating: 22k

ID	Ckt #	Description	P	Trip	Code	VA	A	B	C	VA	Code	Trip	P	Description	Ckt #	ID
EX	1	A607 - Nurse Call West-Com	1	20	EX						EX	20	1	C607 - Nurse Call - Server Cabinet	2	EX
EX	3	Med Gas Alert Panel - B612	1	20	REC	400		1000		600	REC	20	1	Nurse Call Head End - B606A	4	EX
EX	5	Med Gas Alert Panel - B612	1	20	REC	400			800	400	C	20	1	Smoke Damper - B602	6	EX
EX	7	C607 Rauland NC	1	20	EX						EX	20	1	Spare	8	EX
EX	9	Notification Device Power Suppy B606A	1	20	NC	500		900		400	C	20	1	Reserved for BAS Panel - 6B Floor	10	EX
EX	11	Nite Lts - B600A, B, C, B602, 12, & Exit Signs	1	20	L	625			1025	400	C	20	1	Reserved for BAS Panel - 6B Floor	12	EX
EX	13	Space												Space	14	EX
EX	15	Space												Space	16	EX
EX	17	Space												Space	18	EX
EX	19	Space												Space	20	EX
EX	21	Space												Space	22	EX
EX	23	Space												Space	24	EX
EX	25	Space												Space	26	EX
EX	27	Space												Space	28	EX
EX	29	Space												Space	30	EX
EX	31	Space												Space	32	EX
EX	33	Space												Space	34	EX
EX	35	Space												Space	36	EX
	37													Space	38	EX
EX	39	Main Circuit Breaker	3	60										Space	40	EX
	41													Space	42	EX

Total Connected Load: | 1900 | 1825 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	NEC Sizing Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	625	1.25	781
Receptacles (REC)	1400	1.00	1400
Existing (E)		1.25	
Continuous (C)	1200	1.25	1500
Non-Continuous (NC)	500	1.00	500
Refrigeration (REF)		1.00	
Elec. Load Totals:	3725		4181 VA

ELECTRICAL DATA

Total Conn. Load: 4 KVA
Total Conn. Load: 10 Amps
NEC Sizing Load: 4 KVA
NEC Sizing Load: 12 Amps
Main Bus Size: 100 Amps

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION

Location: C607
Mounting: Surface — Enclosure Type: Nema 1
Fed From: (EX) ELC-DPA Distribution SWBD Panel "ELC-DPA"
Equipment Ground Bus: Yes — Bus Material: Copper
Isolated Ground Bus: No — Neutral Size: 100%

PANEL NOTES

Panel Name: E6B-B

New Panel

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire — Main Lugs Only: — Main Breaker: 100 — Panel A.I.C. Rating: 22k

ID	Ckt #	Description	P	Trip	Code	VA	A	B	C	VA	Code	Trip	P	Description	Ckt #	ID
N	1	Rec - B639 & 41	1	20	REC	900	1600			700	REC	20	1	Rec - Wall Mounted Ennov Computer B600B & C	2	N
N	3	Rec - B639 & 41	1	20	REC	900		2200		1300	REC	20	1	Rec - B626 & 28 and Wall Mtd. Comp in B628	4	N
N	5	Rec - B600C	1	20	REC	900			2200	1300	REC	20	1	Rec - B626 & 28 and Wall Mtd. Comp in B626	6	N
N	7	Rec - B643 & 45	1	20	REC	900	1800			900	REC	20	1	Rec - B622	8	N
N	9	Rec - B643 & 45	1	20	REC	900		1800		900	REC	20	1	Rec - B622	10	N
N	11	Rec - Patient Lift B639, 41, 43, & 45	1	20	REC	720			1520	800	REC	20	1	Rec - Pat. Lift B622, 26, 28, & LV Lav B626 & 28	12	N
N	13	Rec - B638 & 40	1	20	REC	900	1800			900	REC	20	1	Rec - B600B	14	N
N	15	Rec - B638 & 40	1	20	REC	900		2200		1300	REC	20	1	Rec - B625 & 27 and Wall Mtd. Comp in B627	16	N
N	17	Rec - B642 & 44	1	20	REC	900			2200	1300	REC	20	1	Rec - B625 & 27 and Wall Mtd. Comp in B625	18	N
N	19	Rec - B642 & 44	1	20	REC	900	1800			900	REC	20	1	Rec - B623	20	N
N	21	Rec - Patient Lift B638, 40, 42, & 44	1	20	REC	720		1620		900	REC	20	1	Rec - B623	22	N
N	23	Condensate pumps - B622, 23, 19, 38, 40, 42, 44	1	20	C	960			1500	540	REC	20	1	Rec - B619	24	N
N	25	Reserved for HVAC Controls (See Note 1)	1	20	C	400	760			360	REC	20	1	Rec - B619	26	N
N	27	Reserved for HVAC Controls (See Note 1)	1	20	C	400		1380		980	REC	20	1	Rec - Pat. Lift B619, 23, 25, 27, & LV Lav B625 & 27	28	N
N	29	Reserved for HVAC Controls (See Note 1)	1	20	C	400			1120	720	REC	20	1	Rec - B600C	30	N
N	31	Reserved for HVAC Controls (See Note 1)	1	20	C	400	1120			720	REC	20	1	Rec - B600B	32	N
N	33	Reserved for HVAC Controls (See Note 1)	1	20	C	400		400				20	1	Spare	34	N
N	35	Reserved for HVAC Controls (See Note 1)	1	20	C	400			400			20	1	Spare	36	N
N	37	Reserved for HVAC Controls (See Note 1)	1	20	C	400	400					20	1	Spare	38	N
N	39	Spare	1	20								20	1	Spare	40	N
N	41	Spare	1	20								20	1	Spare	42	N

Total Connected Load: 9280 | 9600 | 8940 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	NEC Sizing Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)	24060	0.71	17030
Existing (E)		1.25	
Continuous (C)	3760	1.25	4700
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	27820		21730 VA

ELECTRICAL DATA

Total Conn. Load: 28 KVA
Total Conn. Load: 77 Amps
NEC Sizing Load: 22 KVA
NEC Sizing Load: 60 Amps
Main Bus Size: 125 Amps

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION

Location: B624
Mounting: Surface — Enclosure Type: Nema 1
Fed From: (EX) ELC-DP Distribution Switchboard Panel 'E4"Brk #-
Equipment Ground Bus: Yes — Bus Material: Copper
Isolated Ground Bus: No — Neutral Size: 100%

PANEL NOTES

1. E.C. to coordinate with HVAC contractor the exact point of connection for the HVAC controls.

Panel Name: 6B-A

Existing Panel

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire — Main Lugs Only: — Main Breaker: 100 — Panel A.I.C. Rating: Existing

ID	Ckt #	Description	P	Trip	Code	VA	A	B	C	VA	Code	Trip	P	Description	Ckt #	ID
EX	1	Phy reading room receptacle south wall	1	20	REC	1200	2400			1200	REC	20	1	receptacle coffee pot & copier	2	EX
N	3	Quad - IT Data Rm B604C	1	20	REC	400		1600		1200	REC	20	1	Receptacle west, south & metal partitions	4	EX
N	5	Quad - IT Data Rm B604C	1	20	REC	400			1900	1500	AC	20	1	Air aconditioning	6	EX
EX	7	Film rm center receptacle, East Wall	1	20	REC	1200	2400			1200	REC	20	1	Unknown	8	EX
EX	9	Film, right receptacle	1	20	REC	1200		2400		1200	REC	20	1	Outlet #1 west wall	10	EX
EX	11	Film , left receptacle	1	20	REC	1200			2400	1200	REC	20	1	Outlet #6, West wall	12	EX
EX	13	East wall B604	1	20	REC	1200	2400			1200	REC	20	1	Outlet #2, west wall	14	EX
EX	15	Unknown	1	20	REC	1200		2400		1200	REC	20	1	Outlet #3, 4 & 5 West wall	16	EX
EX	17	Unknown	1	20	REC	1200			2700	1500	REC	20	2	JC Panel B624	18	EX
EX	19	Space	1	20			1500			1500	L				20	EX
EX	21	Spare	2	30								15	2	Spare	22	EX
EX	23														24	EX
EX	25	A638 Receptacle, Ice Machine	1	20	REC	1500	1500					30	3	Spare	26	EX
EX	27	A638 Receptacle GFCI	1	20	REC	1200		1200							28	EX
EX	29	A638 Receptacle - Refrigerator/Freezer	1	20	REF	1500			1500						30	EX

Total Connected Load: 10200 | 7600 | 8500 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	NEC Sizing Load (VA)
Air Conditioning (AC)	1500	1.00	1500
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	1500	1.25	1875
Receptacles (REC)	21800	0.73	15900
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)	1500	1.00	1500
Elec. Load Totals:	26300		20775 VA

ELECTRICAL DATA

Total Conn. Load: 26 KVA
Total Conn. Load: 73 Amps
NEC Sizing Load: 21 KVA
NEC Sizing Load: 58 Amps
Main Bus Size: 100 Amps

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION

Location: B604C
Mounting: Surface — Enclosure Type: Nema 1
Fed From: (EX) SS-A Distribution Switchboard Sec 3 Brk #11
Equipment Ground Bus: Yes — Bus Material: Copper
Isolated Ground Bus: No — Neutral Size: 100%

PANEL NOTES

BID DOCUMENTS

FULLY SPRINKLERED

three inches = one foot; one and one half inches = one foot; one inch = one foot; three quarters inch = one foot; one half inch = one foot; three eighths inch = one foot; one quarter inch = one foot; one eighth inch = one foot

P:\0499_DVA\3-0499-0046 Syracuse 6B Patient Ward\2_Drawings\1_Cad\1_Current Submittal Phase\7_Electrical\EP-602.dwg 10-15-14 02:26:49 PM vrizzo

Revisions	Date

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STATE OF NEW YORK — MATTHEW T. COFONE — 085675-1 — LICENSED PROFESSIONAL ENGINEER

Reviewed: Facility Manager
Reviewed: Facility Director
Reviewed:
Reviewed:
Approved: Project Director

Drawing Title: ELECTRICAL SCHEDULES
Project Title: RENOVATION FOR 6B WARD
Building Number: NO. 1 — Checked: BEAVER — Drawn: READ
Location: VAMC SYRACUSE, NY
Date: 10-15-2014
Project No. 528A7-13-745
DRAWING NO. EP-602
Dwg. 76 Of 81

VA HEALTHCARE NETWORK ★ UPSTATE NEW YORK ★
Department of Veterans Affairs

VA FORM 08-6231